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Air Toxics Information Clearinghouse Ongoing Research and Regulatory Development Projects

Radian Corp., Research Triangle Park, NC

Prepared for

Environmental Protection Agency
Research Triangle Park, NC

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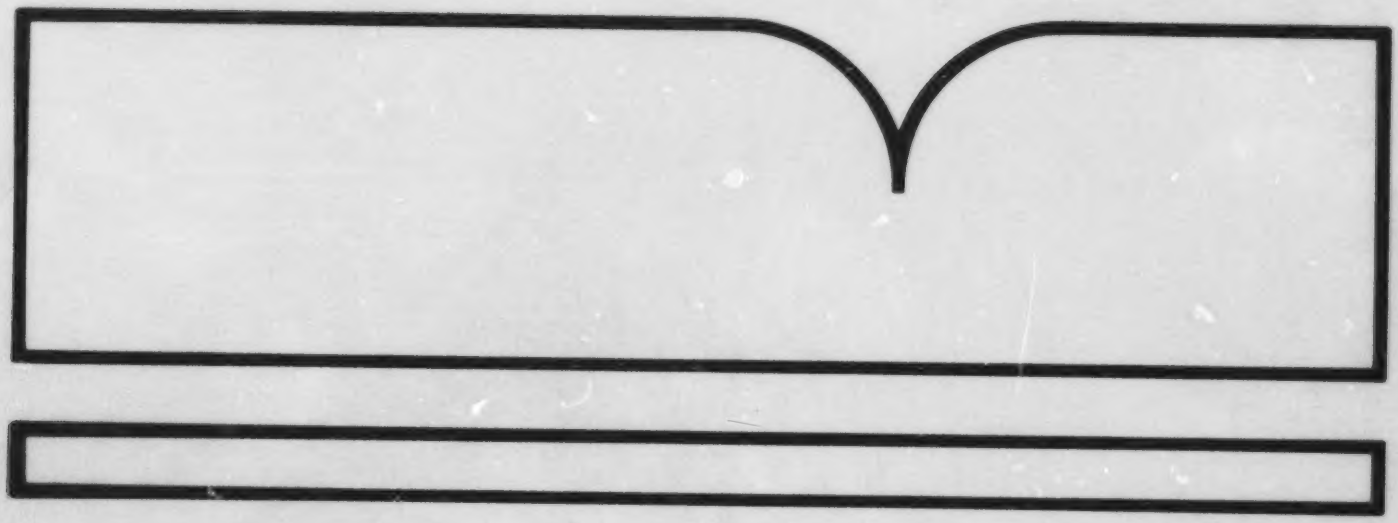

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Ruth C. Mead, Caroline E. Benton, and Alice S. Pelland

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9. Performing Organization Name and Address
Radian Corporation
3200 Progress Center
P. O. Box 13000
Research Triangle Park, NC 27709

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This document is divided into four parts and an appendix. The first part lists 240 air toxics projects currently in progress at EPA and NIOSH. A brief description of each project and a contact name and office are given. The second part of the document contains indices allowing readers to locate projects of interest. Indices are oredered by project type, chemical name, CAS number, and air pollution source type. The third part is a listing of synonyms for chemical names and associated CAS numbers. The fourth part lists other published sources of information on current Federal government toxics research. The appendix lists regulatory development projects on toxic chemicals underway at EPA's Office of Drinking Water (ODW). While most of these projects are not directly related to air problems, health information on toxic chemicals from ODW projects may be of interest to Clearinghouse users.

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State and Local Programs

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CAS - Chemical Bastracts Services registry number(s)

c. COSATI Field/Group

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AIR TOXICS INFORMATION CLEARINGHOUSE

EPA Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711

STAPPA / ALAPCO State and Territorial Air Pollution Program Administrators
Association of Local Air Pollution Control Officials

Ongoing Research and Regulatory Development Projects

March 1985

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AIR TOXICS INFORMATION CLEARINGHOUSE: ONGOING RESEARCH AND REGULATORY DEVELOPMENT PROJECTS

Prepared for:

John J. Vandenberg, Project Officer
Pollutant Assessment Branch
Strategies and Air Standards Division
Office of Air Quality Planning and Standards
U. S. Environmental Protection Agency
Research Triangle Park, North Carolina 27711

Prepared by:

Ruth C. Mead
Caroline E. Benton
Alice S. Pelland
Radian Corporation
Post Office Box 13000
Research Triangle Park, North Carolina 27709

March 1985

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PREFACE

The EPA has focused most of its past efforts in the control of air toxics on the Clean Air Act (CAA) Section 112 National Emission Standards for Hazardous Air Pollutants (NESHAP) program. The amount of time involved for Section 112 listing and eventual control is extensive. Despite this fact, the public is concerned over continuing exposure to potentially toxic air pollutants. The resultant public pressure has had an impact such that many state and local agencies have developed or are now actively developing regulatory programs apart from Federal activities.

In response to state and local agency requests for assistance in information exchange, EPA has designed and is implementing an information dissemination center, known as the Air Toxics Information Clearinghouse. It has been designed and is being implemented in close coordination with the State and Territorial Air Pollution Program Administrators (STAPPA) and the Association of Local Air Pollution Control Officials (ALAPCO).

The purpose of this document, published by the Air Toxics Information Clearinghouse, is to inform state and local policy makers of current research and regulatory development projects underway at EPA and the National Institute of Occupational Safety and Health (NIOSH), and to help them identify sources of specific air toxic information. Every effort has been made to ensure accuracy as of December 1984, the date that compilation of information was completed. However, Agency policies, priorities, and funding levels reflected by the projects listed in this document may change affecting estimated project completion dates and whether or not regulatory actions are finally taken.

This document is an update of the first Air Toxics Information Clearinghouse ongoing research document, which was published in March 1984. The Clearinghouse currently plans to update this document on a regular basis. Other documents published by the Clearinghouse include:

- Air Toxics Information Clearinghouse: Bibliography of Selected EPA Reports and Federal Register Notices - January 1985
- Air Toxics Information Clearinghouse: Selected Bibliography of Health Effects and Risk Assessment Information - July 1984

- Air Toxics Information Clearinghouse: Interim Report of Selected Information on State and Local Agency Air Toxics Activities - September 1984
- Air Toxics Information Clearinghouse Newsletter, Vol. 1, No. 1-5, Vol. 2, No. 1-2 - December 1983, February 1984, April 1984, July 1984, September 1984, December 1984, and February 1985.

ABSTRACT

An Air Toxics Information Clearinghouse is being established by EPA's Office of Air Quality Planning and Standards for the purpose of facilitating information transfer among state, local, and Federal air quality management agencies. This document has been published as part of that effort. The purpose is to inform state and local policy makers and other Clearinghouse users of EPA and NIOSH research and EPA regulatory development projects concerning noncriteria air pollutants.

The document is divided into four parts and an appendix. The first part lists 240 air toxics projects currently in progress at EPA and NIOSH. A brief description of each project and a contact name and office are given. The second part of the document contains indices allowing readers to locate projects of interest. Indices are ordered by project type, chemical name, CAS number, and air pollution source type. The third part is a listing of synonyms for chemical names and associated CAS numbers. The fourth part lists other published sources of information on current Federal government toxics research. The appendix lists regulatory development projects on toxic chemicals underway at EPA's Office of Drinking Water (ODW). While most of these projects are not directly related to air problems, health information on toxic chemicals from ODW projects may be of interest to Clearinghouse users.

This document was submitted in partial fulfillment of Contract No. 68-02-3889, Work Assignment 16, by Radian Corporation under the sponsorship of the U.S. Environmental Protection Agency. Compilation was completed in December 1984, and the report was completed in March 1985.

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INTRODUCTION

This list of ongoing research and regulatory development activities has been compiled by the Air Toxics Information Clearinghouse as one of several tools designed to facilitate information exchange on air toxics. About 240 ongoing projects concerning noncriteria pollutants which have been funded by the U. S. Environmental Protection Agency (EPA) and the National Institute for Occupational Safety and Health (NIOSH) are listed. The EPA or NIOSH office and a contact name is provided for each project. To facilitate use of this document, the projects are indexed by project type, chemical name, Chemical Abstracts Services (CAS) registry number, and air pollution source type.

This document is designed to help state and local agency Clearinghouse users identify sources of information for specific air toxics questions or problems. It is an updated version of the March 1984 Clearinghouse "Ongoing Research and Regulatory Development Projects" document. The list of projects contained in this document focuses on studies which have not yet resulted in publicly available reports, and indicates when the work is scheduled for completion as well as a contact person who can provide study details. In future updates of this document, new projects will be added, and the dates and names previously provided will be updated as required. New projects which have been added since the 1984 edition of this document are marked with an asterisk (*). Projects which have been completed since the last edition have been removed. Some of these projects resulted in published reports which are listed in the January 1985 Clearinghouse publication "Bibliography of Selected EPA Reports and Federal Register Notices", or the July 1984 "Selected Bibliography of Health Effects and Risk Assessment Information".

DOCUMENT SCOPE

Twelve types of projects which are considered to be of greatest interest to agencies concerned with the regulation of noncriteria air pollutants are included in this compilation. Both basic scientific research and studies conducted to assess the need for regulations and/or to support regulations development have been included. However, this should not be taken to mean that Federal regulations necessarily will be developed for sources and substances covered by these projects. The 12 categories of projects are briefly defined below.

1. CHIPs - Chemical Hazard Information Profiles - In these studies, EPA's Office of Toxic Substances (OTS) compiles preliminary information about sources, environmental distribution, exposure and health effects of specific chemicals.

2. Emission Factor Documents - Primarily funded by the Monitoring and Data Analysis Division, Office of Air Quality Planning and Standards (OAQPS), these projects are examining the sources and emissions of specific pollutants.

3. Epidemiology - NIOSH-funded epidemiology studies on noncriteria air pollutants.

4. Exposure Assessments - EPA-funded projects to estimate the population exposed to ambient concentrations of specific chemicals.

5. Health Assessments - Projects funded by EPA's Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office to compile information on health effects of specific chemicals.

6. Monitoring, Sampling, and Analysis - Projects funded by EPA laboratories to develop methodologies for monitoring and sampling hazardous air pollutants.

7. NESHAP - OAQPS projects to develop background information documents (BID) to support National Emission Standards for Hazardous Air Pollutants (NESHAP) under Section 112 of the Clean Air Act. These documents contain the following types of information: a description of the affected industry or air pollution source including emissions data and applicable control techniques; an analysis of regulatory alternatives in terms of potential environmental, economic, and energy impacts; and a health appendix including an exposure assessment and a risk assessment.

8. NSPS - 111(d) - OAQPS projects to prepare background information documents to support new source performance standards (NSPS) for sources of certain hazardous pollutants under Section 111(d) of the Clean Air Act. These documents include the following types of information: a description of the affected industry or air pollution source including emissions data and applicable control techniques, and an analysis of regulatory alternatives in terms of potential environmental, economic, and energy impacts.

9. Pre-Regulatory Assessments - Projects funded by the Pollutant Assessment Branch of OAQPS which include reviewing the health effects, sources, emissions to the ambient air, and public exposure to specific pollutants in order to decide whether these pollutants should be regulated under the Clean Air Act.

10. Risk Assessments - Projects funded by EPA's Office of Health and Environmental Assessment and EPA research laboratories to estimate human risks from hazardous air pollutants.

11. Source Assessments - EPA projects to identify and quantify emissions from specific source categories and to evaluate applicable control technologies.

12. Toxicology - Animal toxicology testing projects funded by EPA research laboratories and NIOSH.

The following EPA offices were contacted for lists of projects within these 12 categories:

- Office of Air Quality Planning and Standards,
- Office of Health and Environmental Assessment,
- Office of Pesticides and Toxic Substances,
- Office of Solid Waste and Emergency Response, and
- Office of Research and Development.

The National Institute of Occupational Safety and Health (NIOSH) under the Department of Health and Human Services was also contacted. In selecting projects from these lists, emphasis was placed on projects dealing with noncriteria air pollutants which belong to the categories listed above. The Office of Drinking Water (ODW) projects have been listed in the appendix. While not specifically air related, health information on toxic pollutants resulting from ODW projects may be helpful to Clearinghouse users.

Several compilations of ongoing research and regulatory development projects on potentially toxic chemicals (not necessarily air pollutants) have been identified in Part 4 of this document. These sources can be used to supplement this compilation.

USING THIS DOCUMENT

This document has been divided into four parts and an appendix. Part 1 contains individual entries for 240 ongoing research and regulatory development projects. The entries are listed by the organization conducting the work in the following order:

- EPA offices,
- EPA laboratories, and
- NIOSH.

Project entries are numbered sequentially throughout Part 1. Each entry generally contains the following elements:

- Chemical Abstract Services (CAS) Registry Number,
- Chemical Name,
- Air Pollution Source,
- Project Type,
- Status of Project, and
- Contact Office and Name.

The first three elements may not be applicable to all entries. For example, projects which deal with groups of chemicals such as "organic

compounds" or "heavy metals" rather than specific pollutants cannot be assigned CAS numbers. The term "various" has been used in these cases. In some projects dealing with specific source categories, lists of chemicals emitted are not yet available, so "various" has been used under Chemical Name. Other chemical-specific projects may not deal with specific air pollution sources. In these cases, the Air Pollution Source element of the entry has been omitted. Wherever possible, an effort has been made to list the specific chemical name(s), CAS registry number(s), and/or source type(s) for each project.

If a project clearly falls into one of the 12 categories previously listed, only that one project type is listed in the entry. While there is often overlap between the kinds of information included in these categories, the project type identified reflects the primary emphasis of the project. Where it was difficult to select the single most appropriate project type, more than one is listed.

The Status of Project element contains the date the project is expected to be completed or published. The month and year is given if available, otherwise the fiscal year of expected completion is provided. Since most NIOSH projects are long term projects, journal articles on various phases of a project may be published before the overall project completion date shown in the entry. In the case of emissions standards projects (NESHAPs and NSPS), the entry indicates whether the standard is currently in the proposal or promulgation stage, since separate background information documents are made publicly available after each stage.

The last element in each project entry lists the office doing the work and the name of the project officer or other knowledgeable contact. Abbreviations used for the offices and the telephone number for each office are included at the end of this introduction.

Part 2 of the document consists of four indices: a project type index, CAS number index, chemical name index, and source type index. These indices allow users to locate projects pertaining to a specific chemical, source, or type of information.

The project type index lists the 12 project types in alphabetical order. Under each project type, the entry numbers and titles of all relevant projects are listed. If an entry contains more than one project type, it is listed in the index under each applicable project type.

The other three indices follow the same format as the project type index. Only those chemical names, CAS numbers, and sources used in the 240 project descriptions are used in these indices.

A list of synonyms for chemical names is included as Part 3 of this document. This will allow users who know a chemical by a different name than the one listed in the index to locate information on the chemical. The

synonym list is organized in two ways. First, in Part A, there is a listing of each CAS number applicable to the 240 projects. Under the CAS number is a list of chemical name synonyms. In Part B, all chemical name synonyms appearing in Part A are listed in alphabetical order followed by the appropriate CAS number.

The final part of the document, Part 4, lists other published sources of information on ongoing air toxics research giving abstracts of these publications and ordering information. It was impossible to include all potentially useful toxicology projects in this report due to space limitations. However the National Toxicology Program (NTP) publishes lists of toxicology research projects underway at EPA, the Department of Health and Human Services, and the Department of Energy. The EPA Chemical Activities Status Report and the Manager's Guide to EPA Activities on Toxic and Hazardous Chemicals, also published periodically, list ongoing EPA projects on specific chemicals, including research and regulation under water, air, solid waste, and toxic substances legislation.

Regulatory development projects underway at the EPA Office of Drinking Water (ODW) are summarized in the appendix. While these projects are not specifically air related, Clearinghouse users may find toxic chemical information generated by ODW useful. For example, background documents for setting Maximum Contaminant Levels under the Safe Drinking Water Act contain health information on toxic chemicals; and many chemicals being studied by ODW are also potential air pollutants. The appendix contains a brief description of ODW regulatory development activities and lists of chemicals currently under study.

Keys to Abbreviations Used in this Document.

Abbreviation for Office/Division/Branch	Name	Telephone
1) Environmental Protection Agency (EPA) Offices		
OAQPS/	Office Air Quality Planning and Standards, Research Triangle Park, NC	
ESED/	Emission Standards and Engineering Division	(919)541-5571
SDB	Standards Development Branch	(919)541-5578
CPB	Chemicals and Petroleum Branch	(919)541-5671
MDAD/	Monitoring and Data Analysis Division	(919)541-5536
AMTB	Air Management Technology Branch	(919)541-5586
RPO	Regional Programs Office	(919)541-5555
SASD/	Strategies and Air Standards Division	(919)541-5504
PAB	Pollutant Assessment Branch	(919)541-5645
OERR/	Office of Emergency, and Remedial Response, Washington, DC	(202)382-2180
HSC	Hazardous Site Control	(202)382-4485
OHEA/	Office of Health and Environmental Assessment, Washington, DC	(202)382-7317
CAG	Carcinogen Assessment Group	(202)382-7309
ECAO-RTP	Environmental Criteria and Assessment Office, Research Triangle Park, NC	(919)541-4173
ECAO-Ci	Environmental Criteria and Assessment Office, Cincinnati, OH	(513)684-7531

Abbreviation for Office/Division/Branch	Name	Telephone
EAG	Exposure Assessment Group	(202)475-8909
REAG	Reproductive Effects Assessment Group	(202)382-7336
OTS/	Office of Toxic Substances, Washington, DC	
A/	Assessment Division	(202)382-3442
CSB	Chemical Screening Branch	(202)382-3507
ORP/	Office of Radiation Programs, Washington, DC	
CSD/	Criteria and Standards Division	(202)557-0704
ESB	Environmental Standards Branch	(202)557-8977
ORD/	Office of Research and Development, Washington, DC	
OHR	Office of Health Research	(202)382-5900
EMSL-RTP	Environmental Monitoring and Support Laboratory, Research Triangle Park, NC	(919)541-2106
ASRL-RTP	Atmospheric Sciences Research Laboratory, Research Triangle Park, NC	(919)541-2191
HERL-RTP	Health Effects Research Laboratory, Research Triangle Park, NC	(919)541-2281
AEERL-RTP	Air and Energy Engineering Research Laboratory, Research Triangle Park, NC	(919)541-2821
HWERL-Ci	Hazardous Waste Engineering Research Laboratory, Cincinnati, OH	(513)684-7696

Abbreviation for Office/Division/Branch	Name	Telephone
HWERL-Edi	Hazardous Waste Engineering Research Laboratory, Edison, NJ	(201)321-6633
Kerr Lab	EPA/Kerr Laboratory, Ada, OK	(405)332-8800

2) National Institute For Occupational Safety and Health (NIOSH) Offices

DBBS/	Division of Biomedical and Behavioral Sciences, Cincinnati, OH	(513)684-8465
APEB	Applied Physiology and Ergonomics Branch	(513)684-8383
ETB	Experimental Toxicology Branch	(513)684-8394
TSB	Technical Support Branch	(513)684-8433
DRDS/	Division of Respiratory Disease Studies, Morgantown, WV	(304)291-4474
LIB	Laboratory Investigations Branch	(304)291-4518
CIB	Clinical Investigations Branch	(304)291-4755
ENIB	Environmental Investigations Branch	(304)291-4474
EPIB	Epidemiology Investigations Branch	(304)291-4476
DSHEFS/	Division of Surveillance, Hazard Evaluations, and Field Studies, Cincinnati, OH	(513)684-8235
IWSB	Industry Wide Studies Branch	(513)684-4203
SB	Surveillance Branch	(513)684-4303

PART 1
LIST OF ONGOING PROJECTS

1. CAS NO: 71-43-2
   CHEMICAL: Benzene
   SOURCE: Coke Ovens; Coke Byproduct Recovery Plants
   PROJECT TYPE: NESHAP
   TITLE: Coke Ovens/Byproduct Plants (Benzene) NESHAP
   STATUS: Proposed 6/6/84; Awaiting Promulgation
   CONTACT: OAQPS/ESED/SDB, G. Wood

2. CAS NO: Various
   CHEMICAL: Coke Oven Emissions
   SOURCE: Coke Ovens, Wet-Coal Charged
   PROJECT TYPE: NESHAP
   TITLE: Coke Oven Emissions: Charging, Topside Leaks, Door Leaks NESHAP
   STATUS: Proposal FY 85
   CONTACT: OAQPS/ESED/SDB, R. Ajax

3. CAS NO: 75-01-4
   CHEMICAL: Vinyl Chloride
   SOURCE: Ethylene Dichloride-Vinyl Chloride Plants; Polyvinylchloride Plants; Chemical Industry
   PROJECT TYPE: NESHAP
   TITLE: Vinyl Chloride NESHAP Revision
   STATUS: Proposal 1/85
   CONTACT: OAQPS/ESED/SDB, F. Dimmick

4. CAS NO: 127-18-4; 79-01-6; 71-55-6; 75-09-2; 76-13-1
   CHEMICAL: VOC; Perchloroethylene; Trichloroethylene; 1,1,1-Trichloroethane; Methylene Chloride; Trichlorotrifluoroethane
   SOURCE: Degreasing Operations; Organic Solvent Cleaners
   PROJECT TYPE: NSPS-111(d)
   TITLE: Organic Solvent Cleaning 111(d) NSPS
   STATUS: Proposed 6/11/80; Amended 4/21/81; Awaiting Promulgation
   CONTACT: OAQPS/ESED/SDB, F. Porter

5. CAS NO: 7440-38-2
   CHEMICAL: Arsenic (Inorganic)
   SOURCE: Glass Manufacturing Plants
   PROJECT TYPE: NESHAP
   TITLE: Glass Manufacturing (Arsenic) NESHAP
   STATUS: Proposed 7/20/83; Awaiting Promulgation
   CONTACT: OAQPS/ESED/SDB, L. Chaput

6. CAS NO: 7440-38-2
   CHEMICAL: Arsenic (Inorganic)
   SOURCE: Primary Copper Smelters; Smelters
   PROJECT TYPE: NESHAP
   TITLE: High Arsenic Copper Smelters NESHAP
   STATUS: Proposed 7/20/83; Awaiting Promulgation
   CONTACT: OAQPS/ESED/SDB, L. Chaput

7. CAS NO: 7440-38-2
   CHEMICAL: Arsenic (Inorganic)
   SOURCE: Primary Copper Smelters; Smelters
   PROJECT TYPE: NESHAP
   TITLE: Low Arsenic Copper Smelters NESHAP
   STATUS: Proposed 7/20/83; Awaiting Promulgation
   CONTACT: OAQPS/ESED/SDB, L. Chaput

8. CAS NO: 1332-21-4
   CHEMICAL: Asbestos
   SOURCE: Construction Industry; Demolition
   PROJECT TYPE: NESHAP
   TITLE: Asbestos NESHAP Revision
   STATUS: Proposal 5/85
   CONTACT: OAQPS/ESED/SDB, L. Chaput

9. CAS NO: 7440-41-7
   CHEMICAL: Beryllium
   SOURCE: Extraction Plants; Ceramic Plants; Foundries; Incinerators; Propellant Plants; Machining Operations
   PROJECT TYPE: NESHAP
   TITLE: Beryllium NESHAP Review
   STATUS: Promulgated 4/6/73; Review FY 85
   CONTACT: OAQPS/ESED/SDB, D. Byrne

10. CAS NO: Various
    CHEMICAL: Mercury
    SOURCE: Ore Processing; Chlor-alkali Manufacturing; Chemical Industry
    PROJECT TYPE: NESHAP
    TITLE: Mercury NESHAP Revision
    STATUS: Proposal FY 85
    CONTACT: OAQPS/ESED/SDB, G.Wood

11. CAS NO: * 7440-47-3
    CHEMICAL: Chromium
    PROJECT TYPE: NESHAP
    TITLE: Chromium NESHAP
    STATUS: Proposal FY 86
    CONTACT: OAQPS/ESED/SDB, J. Crowder

12. CAS NO: * 75-21-8
    CHEMICAL: Ethylene Oxide
    PROJECT TYPE: Source Assessment
    TITLE: Preliminary Study of Sources of Ethylene Oxide
    STATUS: Publish 4/85
    CONTACT: OAQPS/ESED/CPB, D. Markwordt

13. CAS NO: * Various
    CHEMICAL: Various
    SOURCE: Hazardous Waste Facilities
    PROJECT TYPE: Monitoring, Sampling, and Analysis; Source Assessment
    TITLE: Process Sampling and Emission Model Development for Hazardous Waste Treatment, Storage, and Disposal Facility Area Source Air Emissions
    STATUS: In Progress FY 85
    CONTACT: OAQPS/ESED/CPB, K. Hustvedt

14. CAS NO: 71-43-2
    CHEMICAL: Benzene; Gasoline Vapors
    SOURCE: Gasoline Marketing
    PROJECT TYPE: Exposure Assessment
    TITLE: Exposure Assessment for Benzene from Gasoline Marketing Sources
    STATUS: In Progress FY 85
    CONTACT: OAQPS/ESED/CPB, J. Weigold

15. CAS NO: 106-89-8
CHEMICAL: Epichlorohydrin
PROJECT TYPE: Emission Factor Document; Source Assessment
TITLE: Locating and Estimating Air Emissions from Sources of Epichlorohydrin
STATUS: Publish 12/85
CONTACT: OAQPS/MDAD/AMTB, T. Lahre

16. CAS NO: 75-21-8
CHEMICAL: Ethylene Oxide
PROJECT TYPE: Emission Factor Document; Source Assessment
TITLE: Locating and Estimating Air Emissions from Sources of Ethylene Oxide
STATUS: Publish 12/85
CONTACT: OAQPS/MDAD/AMTB, T. Lahre

17. CAS NO: 75-44-5
CHEMICAL: Phosgene
PROJECT TYPE: Emission Factor Document; Source Assessment
TITLE: Locating and Estimating Air Emissions from Sources of Phosgene
STATUS: Publish 12/85
CONTACT: OAQPS/MDAD/AMTB, T. Lahre

18. CAS NO: 7439-96-5
CHEMICAL: Manganese
PROJECT TYPE: Emission Factor Document; Source Assessment
TITLE: Locating and Estimating Air Emissions from Sources of Manganese
STATUS: Publish 12/85
CONTACT: OAQPS/MDAD/AMTB, T. Lahre

19. CAS NO: Various
CHEMICAL: Chlorobenzenes
PROJECT TYPE: Emission Factor Document; Source Assessment
TITLE: Locating and Estimating Air Emissions from Sources of Chlorobenzenes
STATUS: Publish 12/85
CONTACT: OAQPS/MDAD/AMTB, T. Lahre

20. CAS NO: 1336-36-3
CHEMICAL: Polychlorinated Biphenyls (PCB)
PROJECT TYPE: Emission Factor Document; Source Assessment
TITLE: Locating and Estimating Air Emissions from Sources of PCB
STATUS: Publish 12/85
CONTACT: OAQPS/MDAD/AMTB, T. Lahre

21. CAS NO: 75-35-4
CHEMICAL: Vinylidene Chloride
PROJECT TYPE: Emission Factor Document; Source Assessment
TITLE: Locating and Estimating Air Emissions from Sources of Vinylidene Chloride
STATUS: Publish 12/85
CONTACT: OAQPS/MDAD/AMTB, T. Lahre

22. CAS NO. * Various
CHEMICAL: Hazardous Air Pollutants
PROJECT TYPE: Risk Assessment; Exposure Assessment
TITLE: The Magnitude and Nature of the Air Toxics Problem in the United States
STATUS: Publish Final Version 2/85
CONTACT: OAQPS/RPO, B. Steigerwald

23. CAS NO: * 56-23-5
CHEMICAL: Carbon Tetrachloride
PROJECT TYPE: Source Assessment
TITLE: Source Assessment for Carbon Tetrachloride
STATUS: In Progress FY 85
CONTACT: OAQPS/SASD/PAB, B. Lucas

24. CAS NO: * 7440-38-2; 7440-41-7; 7440-43-9; 7440-47-3; 7440-02-0
CHEMICAL: Arsenic; Beryllium; Cadmium; Chromium; Nickel
SOURCE: Combustion
PROJECT TYPE: Exposure Assessment
TITLE: Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel from Coal and Oil Combustion
STATUS: In Progress FY 85
CONTACT: OAQPS/SASD/PAB, W. Peters

25. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Exposure Assessment; Risk Assessment
SOURCE: Hazardous Waste Facilities
TITLE: Exposure/Risk Assessment on Air Emissions from Treatment, Storage and Disposal Facilities
STATUS: Complete FY 87
CONTACT: OAQPS/SASD/PAB, M. Dusetzina

26. CAS NO: * 1746-01-6; Various
CHEMICAL: Dioxins
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Dioxins Under the Clean Air Act
STATUS: Decision 12/85
CONTACT: OAQPS/SASD/PAB, D. Cleverly

27. CAS NO: * 107-13-1
CHEMICAL: Acrylonitrile
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Acrylonitrile Under the Clean Air Act
STATUS: Decision 2/85
CONTACT: OAQPS/SASD/PAB, B. Schell

28. CAS NO: * 7440-43-9
CHEMICAL: Cadmium
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Cadmium Under the Clean Air Act
STATUS: Decision 9/85
CONTACT: OAQPS/SASD/PAB, R. Morrison

29. CAS NO: * 56-23-5
CHEMICAL: Carbon Tetrachloride
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Carbon Tetrachloride Under the Clean Air Act
STATUS: Decision 3/85
CONTACT: OAQPS/SASD/PAB, L. Zaragoza

30. CAS NO: * Various
CHEMICAL: Chlorobenzenes
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Chlorobenzenes Under the Clean Air Act
STATUS: Decision 7/85
CONTACT: OAQPS/SASD/PAB, L. Zaragoza

31. CAS NO: * 76-13-1
CHEMICAL: Chlorofluorocarbon-113
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Chlorofluorocarbon-113 (F-113) Under the Clean Air Act
STATUS: Decision 2/85
CONTACT: OAQPS/SASD/PAB, K. Blanchard

32. CAS NO: * 67-66-3
CHEMICAL: Chloroform
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Chloroform Under the Clean Air Act
STATUS: Decision FY 8/85
CONTACT: OAQPS/SASD/PAB, T. Mohin

33. CAS NO: * 7440-47-3
CHEMICAL: Chromium
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Chromium Under the Clean Air Act
STATUS: Decision 6/85
CONTACT: OAQPS/SASD/PAB, K. Blanchard

34. CAS NO: * 107-06-2
CHEMICAL: Ethylene Dichlcride
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Ethylene Dichloride Under the Clean Air Act
STATUS: Decision 10/85
CONTACT: OAQPS/SASD/PAB, L. Zaragoza

35. CAS NO: * 75-21-8
CHEMICAL: Ethylene Oxide
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Ethylene Oxide Under the Clean Air Act
STATUS: Decision 8/85
CONTACT: OAQPS/SASD/PAB, N. Pate

36. CAS NO: * 71-55-6
CHEMICAL: Methyl Chloroform
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Methyl Chloroform Under the Clean Air Act
STATUS: Decision 2/85
CONTACT: OAQPS/SASD/PAB, K. Blanchard

37. CAS NO: * 75-09-2
CHEMICAL: Methylene Chloride
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Methylene Chloride (Dichloromethane) Under the Clean Air Act
STATUS: Decision 12/85
CONTACT: OAQPS/SASD/PAB, K. Blanchard

38. CAS NO: * 7440-02-0
CHEMICAL: Nickel
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Nickel Under the Clean Air Act
STATUS: Decision 10/85
CONTACT: OAQPS/SASD/PAB, M. Dusetzina

39. CAS NO: * 127-18-4
CHEMICAL: Perchloroethylene
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Perchloroethylene (Tetrachloroethylene) Under the Clean Air Act
STATUS: Decision 7/85
CONTACT: OAQPS/SASD/PAB, D. Cleverly

40. CAS NO: * 79-01-6
CHEMICAL: Trichloroethylene
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Trichloroethylene Under the Clean Air Act
STATUS: Decision 7/85
CONTACT: OAQPS/SASD/PAB, J. Vandenberg

41. CAS NO: * 75-35-4
CHEMICAL: Vinylidene Chloride
PROJECT TYPE: Pre-Regulatory Assessment
TITLE: Decision on Regulation of Vinylidene Chloride Under the Clean Air Act
STATUS: Decision 2/85
CONTACT: OAQPS/SASD/PAB, N. Pate

42. CAS NO: * Various
CHEMICAL: Various
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Source Assessment
TITLE: List of Superfund Hazardous Waste Sites with Air Contamination Problems
STATUS: In Progress FY 85
CONTACT: OERR/HSC, J. Gearo

43. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Risk Assessment
TITLE: Guidelines for Carcinogen Risk Assessment
STATUS: Proposed 11/84; Review in Progress FY 85
CONTACT: OHEA/CAG, R. McGaughy

44. CAS NO: 79-01-6
CHEMICAL: Trichloroethylene
PROJECT TYPE: Health Assessment
TITLE: Health Assessment Document for Trichloroethylene, Revision. External Review
STATUS: Publish Final Version FY 85
CONTACT: OHEA/ECAO-RTP, M. Greenberg

45. CAS NO: 127-18-4
CHEMICAL: Tetrachloroethylene
PROJECT TYPE: Health Assessment
TITLE: Health Assessment for Tetrachloroethylene, Revision. External Review
STATUS: Publish Final Version FY 85
CONTACT: OHEA/ECAO-RTP, M. Greenberg

46. CAS NO: 7440-41-7
CHEMICAL: Beryllium
PROJECT TYPE: Health Assessment
TITLE: Health Assessment Document for Beryllium. External Review
STATUS: Publish Final Version FY 85
CONTACT: OHEA/ECAO-RTP, D. Sivulka

47. CAS NO: 75-21-8
CHEMICAL: Ethylene Oxide
PROJECT TYPE: Health Assessment
TITLE: Health Assessment for Ethylene Oxide. External Review
STATUS: Publish Final Version FY 85
CONTACT: OHEA/ECAO-RTP, R. Bruce

48. CAS NO: 67-66-3
CHEMICAL: Chloroform
PROJECT TYPE: Health Assessment
TITLE: Health Assessment Document for Chloroform. External Review
STATUS: Publish Final Version FY 85
CONTACT: OHEA/ECAO-RTP, S. D. Lee

49. CAS NO: 75-09-2
CHEMICAL: Methylene Chloride
PROJECT TYPE: Health Assessment
TITLE: Health Assessment Document for Methylene Chloride. External Review
STATUS: Publish Final Version FY 85
CONTACT: OHEA/ECAO-RTP, M. Greenberg

50. CAS NO: 107-06-2
CHEMICAL: Ethylene Dichloride
PROJECT TYPE: Health Assessment
TITLE: Health Assessment Document for Ethylene Dichloride. External Review
STATUS: Publish Final Version FY 85
CONTACT: OHEA/ECAO-RTP, R. Bruce

51. CAS NO: 7440-02-0
CHEMICAL: Nickel
PROJECT TYPE: Health Assessment
TITLE: Health Assessment Document for Nickel
STATUS: Publish Revision FY 85
CONTACT: OHEA/ECAO-RTP, D. Sivulka

52. CAS NO: 107-02-8
CHEMICAL: Acrolein
PROJECT TYPE: Health Assessment
TITLE: Health Assessment Document for Acrolein
STATUS: Publish FY 85
CONTACT: OHEA/ECAO-RTP, W. Ewald

53. CAS NO: 126-99-8
CHEMICAL: Chloroprene
PROJECT TYPE: Health Assessment
TITLE: Health Assessment Document for Chloroprene
STATUS: Publish FY 85
CONTACT: OHEA/ECAO-RTP, W. Ewald

54. CAS NO: Various
CHEMICAL: Dioxins
PROJECT TYPE: Health Assessment
TITLE: Health Assessment Document for Dioxins. External Review
STATUS: Publish Final Version FY 85
CONTACT: OHEA/ECAO-Ci, D. Mukerjee

55. CAS NO: 108-95-2
CHEMICAL: Phenol
PROJECT TYPE: Health Assessment
TITLE: Health Assessment Document for Phenol. External Review
STATUS: In Progress FY 85
CONTACT: OHEA/ECAO-Ci, D. Reisman

56. CAS NO: Various
CHEMICAL: Chlorobenzenes
PROJECT TYPE: Health Assessment
TITLE: Health Assessment Document for Chlorinated Benzenes. Final Report
STATUS: Publish Final Version FY 85
CONTACT: OHEA/ECAO-Ci, W. B. Peirano

57. CAS NO: 132-64-9
CHEMICAL: Dibenzofurans
PROJECT TYPE: Health Assessment
TITLE: Health Assessment Document for Dibenzofurans
STATUS: In Progress FY 85
CONTACT: OHEA/ECAO-Ci, D. Mukerjee

58. CAS NO: * 7440-50-8
CHEMICAL: Copper
PROJECT TYPE: Health Assessment
TITLE: Health Assessment Document for Copper
STATUS: In Progress FY 85
CONTACT: OHEA/ECAO-Ci, D. Reisman

59. CAS NO: * Various
CHEMICAL: Creosols
PROJECT TYPE: Health Assessment
TITLE: Health Assessment Document for Creosols
STATUS: In Progress FY 85
CONTACT: OHEA/ECAO-Ci, D. Reisman

60. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Risk Assessment
TITLE: Risk Assessment Guidelines for Chemical Mixtures
STATUS: Proposed 1/85; Review in Progress FY 85
CONTACT: OHEA/ECAO-Ci, R. Hertzberg

61. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Exposure Assessment
TITLE: Guidelines for Exposure Assessment
STATUS: Proposed 11/84; Review in Progress FY 85
CONTACT: OHEA/EAG, J. Falco

62. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Health Assessment; Risk Assessment
TITLE: Guidelines for the Health Assessment of Suspect Developmental Toxicants
STATUS: Proposed 11/84; Review in Progress FY 85
CONTACT: OHEA/REAG, C. Kimmel

63. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Risk Assessment
TITLE: Guidelines for Mutagenicity Risk Assessment
STATUS: Proposed 11/84; Review in Progress FY 85
CONTACT: OHEA/REAG, D. Jacobson

64. CAS NO: Various
CHEMICAL: Various
PROJECT TYPE: Risk Assessment
TITLE: Risk Assessment Guidelines for Systemic Toxicants
STATUS: In Progress FY 85
CONTACT: OHEA, E. Anderson

65. CAS NO: * 78-40-0
CHEMICAL: Triethyl Phosphate
PROJECT TYPE: CHIP
TITLE: Chemical Hazard Information Profile for Triethyl Phosphate
STATUS: Publish 4/85
CONTACT: OTS/A/CSB, J. Leitzke

66. CAS NO: * 117-82-8
CHEMICAL: Dimethoxyethyl Phthalate
PROJECT TYPE: CHIP
TITLE: Chemical Hazard Information Profile for Dimethoxyethyl Phthalate
STATUS: Publish 4/85
CONTACT: OTS/A/CSB, J. Leitzke

67. CAS NO: * 868-85-9
CHEMICAL: Dimethyl Hydrogen Phosphite
PROJECT TYPE: CHIP
TITLE: Chemical Hazard Information Profile for Dimethyl Hydrogen Phosphite
STATUS: Publish 4/85
CONTACT: OTS/A/CSB, J. Leitzke

68. CAS NO: * 60-12-8
CHEMICAL: Phenylethanol
PROJECT TYPE: CHIP
TITLE: Chemical Hazard Information Profile for Phenylethanol
STATUS: Publish 4/85
CONTACT: OTS/A/CSB, J. Leitzke

69. CAS NO: * 103-45-7
CHEMICAL: Phenylethanol Acetate
PROJECT TYPE: CHIP
TITLE: Chemical Hazard Information Profile for Phenylethanol Acetate
STATUS: Publish 4/85
CONTACT: OTS/A/CSB, J. Leitzke

70. CAS NO: * 85-41-6
CHEMICAL: Phthalimide
PROJECT TYPE: CHIP
TITLE: Chemical Hazard Information Profile for Phthalimide
STATUS: Publish 4/85
CONTACT: OTS/A/CSB, J. Leitzke

71. CAS NO: * Various
CHEMICAL: Radionuclides
SOURCES: Phosphorus Plants; Uranium Mines; Mining; Hazardous Waste Facilities; Nuclear Research and Development; Energy Industry; Manufacturing Radionuclide Products; Plutonium Manufacturing; Pharmaceutical Industry
PROJECT TYPE: NESHAP
TITLE: Radionuclides NESHAP
STATUS: Proposed 4/6/84; Withdrawn 10/31/84; Promulgation 1/85
CONTACT: ORP/CSD/ESB, J. Hardin

72. CAS NO: * 10043-92-2
CHEMICAL: Radon-222
SOURCE: Uranium Mines; Mining
PROJECT TYPE: NESHAP
TITLE: NESHAP for Radon-222 Emissions from Underground Uranium Mines
STATUS: Proposal 2/85
CONTACT: ORP/CSD/ESB, J. Hardin

73. CAS NO: * 10043-92-2
CHEMICAL: Radon-222
SOURCE: Uranium Mines; Mining
PROJECT TYPE: NESHAP
TITLE: NESHAP for Radon-222 Emissions from Licensed Uranium Mines
STATUS: Proposal FY 86
CONTACT: ORP/CSD/ESB, J. Hardin

74. CAS NO: Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Evaluation of Thermally Desorbable Passive Sampling Devices
STATUS: Publish FY 85
CONTACT: EMSL-RTP, R. Lewis

75. CAS NO: Various
CHEMICAL: Organic Compounds
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: GC-FTIR Analysis of Ambient Volatile Organic Compounds
STATUS: Publish 4/85
CONTACT: EMSL-RTP, W. McClenny

76. CAS NO: 7440-38-2
CHEMICAL: Arsenic
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Report on Validation Studies of Emission Test Method for Arsenic
STATUS: Publish 6/85
CONTACT: EMSL-RTP, T. Ward

77. CAS NO: Various
CHEMICAL: Organic Compounds
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Evaluation of New Solid Sorbents for Collection of Organic Vapors from Air
STATUS: Publish FY 85
CONTACT: EMSL-RTP, J. Mulik

78. CAS NO: Various
CHEMICAL: Total Reduced Sulfur; Sulfur
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Validation of Method 15 and 15A for Total Reduced Sulfur from Sulfur Recovery Plants
STATUS: Publish FY 85
CONTACT: EMSL-RTP, J. Margeson

79. CAS NO: Various
CHEMICAL: Chromium, Hexavalent
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Develop Source Test Methods for Hexavalent Chromium
STATUS: Publish FY 85
CONTACT: EMSL-RTP, F. Butler

80. CAS NO: Various
CHEMICAL: Organic Compounds
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Report on Use of Dynamic Impinger as Advanced Screening Technique for Hazardous Organics
STATUS: Publish 9/85
CONTACT: EMSL-RTP, J. Pau

81. CAS NO: Various
CHEMICAL: Polynuclear Aromatic Hydrocarbons
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Luminescence Analysis of Polynuclear Aromatic Compounds in Particulate Matter
STATUS: Publish 8/85
CONTACT: EMSL-RTP, N. Wilson

82. CAS NO: Various
CHEMICAL: Organic Compounds
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Report on Nitrogen-Specific Detector in GC Measurement of Hazardous Organics
STATUS: Publish 6/85
CONTACT: EMSL-RTP, J. Knoll

83. CAS NO: Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Evaluation of Portable Photoionizing Analyzer for Separation and Quantification of Air Pollutants
STATUS: Publish 12/85
CONTACT: EMSL-RTP, G. Ortman

84. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Field Test of Cryogenic Ambient Monitor for Volatile Organic Chemicals
STATUS: Complete 3/85
CONTACT: EMSL-RTP, W. McClenny

85. CAS NO: * 1332-21-4
CHEMICAL: Asbestos
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Report of FY-84 Audit Results on Asbestos
STATUS: Publish 2/85
CONTACT: EMSL-RTP, M. Beard

86. CAS NO: * 1332-21-4
CHEMICAL: Asbestos
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Report on Methods Evaluation for Asbestos
STATUS: Publish 12/85
CONTACT: EMSL-RTP, M. Beard

87. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Annual Report of NFAN Trace Element Analysis
STATUS: Publish 2/85
CONTACT: EMSL-RTP, T. Lawless

88. CAS NO: * 1332-21-4
CHEMICAL: Asbestos
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Develop Sampling and Analysis Method for Asbestos
STATUS: Publish 12/85
CONTACT: EMSL-RTP, R. Fuerst

89. CAS NO: * 75-01-4
CHEMICAL: Vinyl Chloride
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Evaluate Vinyl Chloride Continuous Emission Monitors
STATUS: Complete FY 85
CONTACT: EMSL-RTP, J. Pau

90. CAS NO: * 7440-02-0; Various
CHEMICAL: Nickel
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Develop Methods for Speciated Nickel
STATUS: Complete 12/85
CONTACT: EMSL-RTP, F. Butler

91. CAS NO: * Various
CHEMICAL: Dioxins
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Validate an Emission Test Method for Dioxins
STATUS: Complete 6/86
CONTACT: EMSL-RTP, J. Knoll

92. CAS NO: * 75-21-8
CHEMICAL: Ethylene Oxide
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Develop and Evaluate a Source Test Method for Ethylene Oxide
STATUS: Complete 12/85
CONTACT: EMSL-RTP, J. Margeson

93. CAS NO: * 106-89-8
CHEMICAL: Epichlorohydrin
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Develop and Evaluate a Source Test Method for Epichlorohydrin
STATUS: Complete 12/85
CONTACT: EMSL-RTP, J. Pau

94. CAS NO: * 77-47-4
CHEMICAL: Hexachlorocyclopentadiene
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Develop and Evaluate a Source Test Method for Hexachlorocyclopentadiene
STATUS: Complete 12/85
CONTACT: EMSL-RTP, J. Knoll

95. CAS NO: * Various
CHEMICAL: Hazardous Air Pollutants
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Develop Additions to QA Handbook, Vol. III for HAP Pollutants
STATUS: Publish 12/85
CONTACT: EMSL-RTP, D. Von Lehmden

96. CAS NO: * Various
CHEMICAL: Hazardous Air Pollutants
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Comparison of Cryogenic Trapping and Sorbent Sampling
STATUS: Complete 7/85
CONTACT: EMSL-RTP, W. McClenny

97. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: A Report on the Operation of the Toxics Air Monitoring System (TAMS) for FY 85
STATUS: Publish FY 85
CONTACT: EMSL-RTP, G. Evans

98. CAS NO: * Various
CHEMICAL: Hazardous Air Pollutants
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Revisions to Compendium of Methods
STATUS: Publish 9/85
CONTACT: EMSL-RTP, L. Purdue

99. CAS NO: Various
CHEMICAL: Organic Compounds
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Atmospheric Measurements of Trace Hazardous Organic Chemicals
STATUS: In Progress FY 85
CONTACT: ASRL-RTP, L. Cupitt

100. CAS NO: Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis; Source Assessment
TITLE: Hazardous Air Pollutants in the Urban Environment
STATUS: In Progress FY 85
CONTACT: ASRL-RTP, L. Cupitt

101. CAS NO: Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Ambient Air/Source Transport and Transformation Relationships for Selected Hazardous Air Pollutants
STATUS: In Progress FY 85
CONTACT: ASRL-RTP, W. Lonneman

102. CAS NO: Various
CHEMICAL: Hazardous Air Pollutants (Priority)
PROJECT TYPE: Toxicology
TITLE: Determine Pulmonary Dose-Response Relationships
STATUS: Started 10/81; Continuing
CONTACT: HERL-RTP, J. Graham

103. CAS NO: Various
CHEMICAL: Hazardous Air Pollutants (Priority)
PROJECT TYPE: Toxicology
TITLE: Determine Neurotoxic Dose-Response Relationships
STATUS: Started 10/81; Complete 6/85
CONTACT: HERL-RTP, L. Reiter

104. CAS NO: Various
CHEMICAL: Hazardous Air Pollutants (Priority)
PROJECT TYPE: Toxicology
TITLE: Characterize Genotoxic Dose-Response Relationships
STATUS: Started 10/79; Complete 10/87
CONTACT: HERL-RTP, J. Lewtas

105. CAS NO: Various
CHEMICAL: Hazardous Air Pollutants
PROJECT TYPE: Toxicology; Monitoring, Sampling, and Analysis
TITLE: Identify and Evaluate Toxic Components of Air Pollution
STATUS: Started 10/81; Complete 10/87
CONTACT: HERL-RTP; J. Lewtas

106. CAS NO: Various
CHEMICAL: Hazardous Air Pollutants
PROJECT TYPE: Toxicology
TITLE: Determine the Significance of Neurotoxic Response Indicators
STATUS: Started 10/81; Complete 10/88
CONTACT: HERL-RTP, L. Reiter

107. CAS NO: Various
CHEMICAL: Organic Compounds
SOURCES: Residential Buildings; Combustion; Coke Ovens
PROJECT TYPE: Source Assessment; Risk Assessment; Toxicology
TITLE: Evaluate the Contribution of Source Emissions to Cancer Risk
STATUS: Started 10/83; Complete 10/88
CONTACT: HERL-RTP, J. Lewtas

108. CAS NO: Various
CHEMICAL: Hazardous Air Pollutants
SOURCE: Combustion
PROJECT TYPE: Toxicology; Risk Assessment
TITLE: Genotoxic Risks from Complex Mixtures of Hazardous Air Pollutants
STATUS: Start 10/84; Complete 9/89
CONTACT: HERL-RTP, J. Lewtas

109. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Toxicology
TITLE: Develop Methods to Identify Reproductive Toxicity of Air Pollutants
STATUS: Started 10/84; Complete 9/90
CONTACT: HERL-RTP, J. Laskey

110. CAS NO: * Various
CHEMICAL: Various
SOURCE: Combustion
PROJECT TYPE: Exposure Assessment
TITLE: Integrated Air Cancer Project
STATUS: Started 10/84; Continuing
CONTACT: HERL-RTP, J. Lewtas

111. CAS NO: Various
CHEMICAL: Hazardous Air Pollutants
PROJECT TYPE: Risk Assessment
TITLE: Harvard University Cooperative Agreement - Monographs on Research and Policy Issues Including 1.) Sensitive Individuals, 2.) Biological Screening Tests, 3.) Air Carcinogen Policy, and 4.) Regulation of Toxic and Nuclear Waste.
STATUS: Started 6/80; Complete 10/85
CONTACT: ORD/OHR, R. Cortesi

112. CAS NO: Various
CHEMICAL: Hazardous Air Pollutants
SOURCE: Fired Heaters; Combustion
PROJECT TYPE: Emission Factor Document; Source Assessment
TITLE: Evaluation of Techniques to Reduce HAP Emissions from Waste-Oil-Fired Heaters
STATUS: In Progress FY 85
CONTACT: AEERL-RTP, R. Hall

113. CAS NO: Various
CHEMICAL: Hazardous Air Pollutants; VOC
PROJECT TYPE: Emission Factor Document
TITLE: Destruction of VOC/HAP Emissions Via Catalytic Incineration
STATUS: In Progress FY 85
CONTACT: AEERL-RTP, B. Tichenor

114. CAS NO: Various
CHEMICAL: Organic Compounds
SOURCE: Incineration; Combustion
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Fugitive Organic Emissions from Incineration
STATUS: In Progress FY 85
CONTACT: AEERL-RTP, M. Jackson

115. CAS NO: * Various
CHEMICAL: Indoor Air Pollutants
PROJECT TYPE: Source Assessment
TITLE: Indoor Air Quality Source Assessment Studies
STATUS: Complete 9/85
CONTACT: AEERL-RTP, D. Sanchez

116. CAS NO: * Various
CHEMICAL: Organic Compounds
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Hazardous Organic Evaporative Emissions Testing: Synfuels vs. Petrofuels
STATUS: In Progress FY 85
CONTACT: AEERL-RTP, N. Smith

117. CAS NO: * Various
CHEMICAL: Indoor Air Pollutants
PROJECT TYPE: Emission Factor Document; Monitoring, Sampling, and Analysis
TITLE: Characterization of Emissions from Indoor Materials
STATUS: Complete 4/85
CONTACT: AEERL-RTP, D. Sanchez

118. CAS NO: * Various
CHEMICAL: Polynuclear Aromatic Hydrocarbons
PROJECT TYPE: Source Assessment
TITLE: Ninth International Symposium on Polynuclear Aromatics
STATUS: Publish 9/85
CONTACT: AEERL-RTP, Johnson

119. CAS NO: * Various
CHEMICAL: Dyes
SOURCE: Textile Industry
PROJECT TYPE: Source Assessment
TITLE: Textile Industry Dyes and Pigment Lifecycle - Discharge/ Release Assessment
STATUS: Complete 3/85
CONTACT: AEERL-RTP, J. Ruppersberger

120. CAS NO: * Various
CHEMICAL: Various
SOURCE: Hazardous Waste Facilities; Incinerators
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Evaluation of Hazardous Waste Incinerator Operation
STATUS: In Progress FY 85
CONTACT: AEERL-RTP, D. Harris

121. CAS NO: * Various
CHEMICAL: Indoor Air Pollutants
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Survey of Indoor Air Pollutant Measurement Technology
STATUS: In Progress FY 85
CONTACT: AEERL-RTP, D. Harris

122. CAS NO: * Various
CHEMICAL: Indoor Air Pollutants
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Methods Development for Collecting Indoor Air Pollutant Samples for Bioassay
STATUS: In Progress FY 85
CONTACT: AEERL-RTP, D. Harris

123. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Improved Analysis Technique for Volatile Hazardous Constituents
STATUS: In Progress FY 85
CONTACT: AEERL-RTP, Anderson

124. CAS NO: * Various
CHEMICAL: Dioxins; Polychlorinated Biphenyls (PCB)
SOURCE: Incinerators; Hazardous Waste Facilities
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Analysis of Samples from Waste Incineration Study Involving Hazardous Materials Such as Dioxins and PCB's
STATUS: In Progress FY 85
CONTACT: AEERL-RTP, J. Wasser

125. CAS NO: * Various
CHEMICAL: Various
SOURCE: Hazardous Waste Facilities; Incinerators
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: POHC Sampling and Analysis Methods for Hazardous Waste Incineration
STATUS: Complete 6/85
CONTACT: AEERL-RTP, A. Gagnon

126. CAS NO: * Various
CHEMICAL: Organic Compounds
SOURCE: Hazardous Waste Facilities; Incinerators
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Volatile Organic Sampling for Hazardous Waste Incinerator
STATUS: In Progress FY 85
CONTACT: AEERL-RTP, Anderson

127. CAS NO: * Various
CHEMICAL: Various
SOURCE: Hazardous Waste Facilities; Incinerators
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Sample Integrity and Sorbent Evaluation for Hazardous Waste Incineration and Stationary Source Sampling
STATUS: Complete 8/85
CONTACT: AEERL-RTP, R. Merrill

128. CAS NO: * Various
CHEMICAL: Indoor Air Pollutants
PROJECT TYPE: Monitoring, Sampling, and Analysis; Emission Factor Document
TITLE: Indoor Air Pollution Emission Rate Data Base
STATUS: Complete 3/85
CONTACT: AEERL-RTP, Samfield

129. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis; Source Assessment
TITLE: Integrated Air Cancer Project - Source Measurement
STATUS: Complete 8/85
CONTACT: AEERL-RTP, R. McCrillis

130. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Emission Factor Document
TITLE: NAPAP Emission Inventory - Develop Emission Factors for Non-Criteria Pollutants
STATUS: Complete 6/85
CONTACT: AEERL-RTP, J. Mobley

131. CAS NO: * 7440-50-8
CHEMICAL: Copper
PROJECT TYPE: Source Assessment
TITLE: Evaluation of Copper Emissions from Industrial Facilities
STATUS: Complete 11/85
CONTACT: AEERL-RTP, B. Tichenor

132. CAS NO: * Various
CHEMICAL: Various
SOURCE: Combustion
PROJECT TYPE: Source Assessment
TITLE: Wood Stove Emissions Characterization and Control Technology Technical Support
STATUS: Complete 3/85
CONTACT: AEERL-RTP, R. McCrillis

133. CAS NO: * Various
CHEMICAL: Various
SOURCE: Combustion
PROJECT TYPE: Source Assessment
TITLE: Integrated Air Cancer Project: Wood Stove Operating Profiles
STATUS: Complete 5/85
CONTACT: AEERL-RTP, R. McCrillis

134. CAS NO: * 10043-92-2
CHEMICAL: Radon
PROJECT TYPE: Source Assessment
TITLE: Demonstration of Low-Cost Reduction of Indoor Radon from Soil
STATUS: Complete 3/87
CONTACT: AEERL-RTP, J. Ruppersberger

135. CAS NO: Various
CHEMICAL: Various
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Source Assessment
TITLE: Preliminary Assessment of Hazardous Waste Pretreatment as an Air Pollution Control Technique
STATUS: Publish 2/85
CONTACT: HWERL-Ci, B. Blaney

136. CAS NO: 74-82-8
CHEMICAL: Methane
SOURCE: Hazardous Waste Sites
PROJECT TYPE: Source Assessment
TITLE: Field Verification of Methane Movement Predictions and Methane Control Systems for Landfills
STATUS: Publish Draft 3/85
CONTACT: HWERL-Ci, M. Roulier

137. CAS NO: * Various
CHEMICAL: Various
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Exposure Assessment
TITLE: Applications Manual for Inhalation Exposure Methodology
STATUS: Publish 4/85
CONTACT: HWERL-Ci, B. Blaney

138. CAS NO: * Various
CHEMICAL: Various
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Source Assessment; Monitoring, Sampling, and Analysis
TITLE: Report Describing Field Assessment of the Use of Treatment to Reduce Emissions from Hazardous Waste Streams
STATUS: Publish 10/85
CONTACT: HWERL-Ci, B. Blaney

139. CAS NO: * Various
CHEMICAL: Various
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Source Assessment
TITLE: Report on Air Emissions for Hazardous Waste Treatment Systems
STATUS: Publish 6/85
CONTACT: HWERL-Ci, B. Blaney

140. CAS NO: * Various
CHEMICAL: Various
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Source Assessment
TITLE: Case Studies of Hazardous Waste Air Emissions
STATUS: Publish 1/86
CONTACT: HWERL-Ci, B. Blaney

141. CAS NO: * Various
CHEMICAL: Various
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Emission Factor Document
TITLE: Preliminary Assessment of Air Emissions from Waste Treatment Systems
STATUS: Publish 1/86
CONTACT: HWERL-Ci, B. Blaney

142. CAS NO: * Various
CHEMICAL: Various
SOURCE: Hazardous Waste Sites
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Identify Volatilization Mechanisms and Parameters for Surface Impoundments and Develop Measurement Techniques for These Parameters
STATUS: Publish Draft 2/85
CONTACT: HWERL-Ci, S. James

143. CAS NO: * Various
CHEMICAL: Various
SOURCE: Hazardous Waste Sites
PROJECT TYPE: Source Assessment
TITLE: Air Emissions from Surface Impoundments
STATUS: In Progress FY 85
CONTACT: HWERL-Ci, P. dePercin

144. CAS NO: Various
CHEMICAL: Various
SOURCE: Hazardous Spills
PROJECT TYPE: Source Assessment
TITLE: Develop Mobile Collection/Treatment System for Spilled Volatile and Gaseous Materials
STATUS: Publish Draft 1/85
CONTACT: HWERL-Edi, M. Royer

145. CAS NO: Various
CHEMICAL: Various
SOURCE: Hazardous Spills
PROJECT TYPE: Source Assessment
TITLE: Evaluation/Development of Foams for Mitigating Air Pollution from Hazardous Spills
STATUS: In Progress FY 85
CONTACT: HWERL-Edi, J. Brugger

146. CAS NO: Various
CHEMICAL: Various
SOURCE: Hazardous Waste Sites
PROJECT TYPE: Source Assessment
TITLE: Evaluation of Volatilization of Hazardous Compounds at Hazardous Waste Land Treatment Sites
STATUS: Complete 9/85
CONTACT: Kerr Lab, F. Pfeffer

147. CAS NO: Various
CHEMICAL: Aluminum; Lithium Compounds
PROJECT TYPE: Toxicology
TITLE: Neurobehavioral Methods For Toxic Agents
STATUS: Started 10/79; Completed 9/83; In Publication 1/85
CONTACT: NIOSH/DBBS/APEB, D. Chrislip

148. CAS NO: 74-83-9; 75-15-0; 56-23-5; 2699-79-8
CHEMICAL Methyl Bromide; Carbon Tetrachloride; Carbon Disulfide; Sulfuryl Fluoride
SOURCE: Fumigation
PROJECT TYPE: Epidemiology
TITLE: Neurotoxicity Evaluations of Fumigators
STATUS: Started 10/80; Complete 9/86
CONTACT: NIOSH/DBBS/APEB, K. Anger

149. CAS NO: Various
CHEMICAL: Alcohol Solvents; Solvents
PROJECT TYPE: Toxicology
TITLE: Behavioral Teratology of Alcohol Solvents
STATUS: Started 10/82; Complete 9/87
CONTACT: NIOSH/DBBS/APEB, K. Nelson

150. CAS NO: * Various
CHEMICAL: Solvents
PROJECT TYPE: Toxicology
TITLE: Neurotoxicity of Aliphatic Carbon Solvents
STATUS: Started 10/83; Complete 9/87
CONTACT: NIOSH/DBBS/APEB, K. Anger

151. CAS NO: * Various
CHEMICAL: Paints; Ketones
PROJECT TYPE: Toxicology
TITLE: Neurobehavioral Effects from Single/Mixed Spray Paint Agents
STATUS: Started 10/79, Complete 9/87
CONTACT: NIOSH/DBBS/APEB, R. Dick

152. CAS NO: * Various
CHEMICAL: Cadmium; Heavy Metals
PROJECT TYPE: Toxicology
TITLE: Neurotoxicity from Exposure to Heavy Metals
STATUS: Started 10/84; Complete 9/88
CONTACT: NIOSH/DBBS/APEB, K. Anger

153. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Toxicology; Epidemiology
TITLE: Methodologies for Worksite Neurotoxicity
STATUS: Started 10/84; Complete 9/87
CONTACT: NIOSH/DBBS/APEB, K. Anger

154. CAS NO: Various
CHEMICAL: Particulates
SOURCE: Foundries
PROJECT TYPE: Toxicology
TITLE: Carcinogenicity of Foundry Particulates
STATUS: Started 10/78; Completed 9/83; In Publication 1/85
CONTACT: NIOSH/DBBS/ETB, R. Niemeier

155. CAS NO: Various
CHEMICAL: Diesel Exhaust; Coal Dust
SOURCE: Mining
PROJECT TYPE: Toxicology
TITLE: Diesel Exhaust/Coal Dust Animal Exposure Studies
STATUS: Started 10/77; Completed 9/83; In Publication 1/85
CONTACT: NIOSH/DBBS/ETB, T. Lewis

156. CAS NO: 107-11-9; 121-44-8
CHEMICAL: Allylamine; Triethylamine
PROJECT TYPE: Toxicology
TITLE: Occupational Cardiac Toxicity
STATUS: Started 10/80; Completed 5/84; In Publication 1/85
CONTACT: NIOSH/DBBS/ETB, D. Lynch

157. CAS NO: Various
CHEMICAL: Isobutyl Nitrate; Hazardous Chemicals
PROJECT TYPE: Toxicology
TITLE: Emergency Toxicological Assessment
STATUS: Started 10/81; Completed FY 84; In Publication 1/85
CONTACT: NIOSH/DBBS/ETB, D. Lynch

158. CAS NO: 1314-62-1
CHEMICAL: Vanadium Pentoxide
SOURCE: Mining
PROJECT TYPE: Toxicology; Epidemiology
TITLE: Pulmonary Hypersensitivity of Industrial Agents
STATUS: Started 10/78; Complete 9/85
CONTACT: NIOSH/DBBS/ETB, W. Moorman

159. CAS NO: 107-06-2
CHEMICAL: 1,2-Dichloroethane
PROJECT TYPE: Toxicology
TITLE: Dichloroethane Drug Interactions-NCI
STATUS: Started 10/80; Complete 9/85
CONTACT: NIOSH/DBBS/ETB, K. Cheever

160. CAS NO: 8052-42-4
CHEMICAL: Asphalt
PROJECT TYPE: Toxicology
TITLE: Assessment of Cocarcinogenic Activity of Asphalt Fumes
STATUS: Started 10/82; Complete 9/87
CONTACT: NIOSH/DBBS/ETB, R. Niemeier

161. CAS NO: * Various
CHEMICAL Various
PROJECT TYPE: Toxicology
TITLE: Inhalation Reproductive and Developmental Toxicity Testing
STATUS: Started 10/84; Complete 9/89
CONTACT: NIOSH/DBBS/ETB, B. Hardin

162. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Toxicology
TITLE: Prioritizing Chemicals for Reproductive Toxicity Testing
STATUS: Started 10/80; Complete 9/86
CONTACT: NIOSH/DBBS/ETB, B. Hardin

163. CAS NO: * Various
CHEMICAL: Glycol Ethers
PROJECT TYPE: Toxicology
TITLE: Biochemical Indices of Male Reproductive Impairment
STATUS: Started 10/82; Complete 12/85
CONTACT: NIOSH/DBBS/ETB, K. Cheever

164. CAS NO: * 111-96-6
CHEMICAL: Bis(2-methoxyethyl)ether
PROJECT TYPE: Toxicology
TITLE: Metabolism and Excretion Studies of Bis(2-methoxyethyl)ether (Diglyme)
STATUS: Started 10/84; Complete 9/86
CONTACT: NIOSH/DBBS/ETB, D. Richards

165. CAS NO: * 109-86-4
CHEMICAL: 2-Methoxyethanol
PROJECT TYPE: Toxicology
TITLE: Cardiovascular Fetotoxicity and Functional Teratogenesis
STATUS: Started 10/83; Complete 9/86
CONTACT: NIOSH/DBBS/ETB, M. Toraason

166. CAS NO: * 85-44-9
CHEMICAL: Phthalic Anhydride
PROJECT TYPE: Toxicology
TITLE: Pulmonary Hypersensitivity of Industrial Agents
STATUS: Started 10/84; Complete 9/87
CONTACT: NIOSH/DBBS/ETB, E. Knecht

167. CAS NO: * 1314-62-1
CHEMICAL: Vanadium Pentoxide
PROJECT TYPE: Toxicology
TITLE: Chronic Inhalation of Vanadium Pentoxide
STATUS: Started 10/83; Complete 9/86
CONTACT: NIOSH/DBBS/ETB, W. Moorman

168. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Toxicology
TITLE: In Vitro Tests for Workplace Carcinogens
STATUS: Started 10/80; Complete 1/88
CONTACT: NIOSH/DBBS/ETB, J. Bohrman

169. CAS NO: * Various
CHEMICAL: Aromatic Amines
PROJECT TYPE: Toxicology
TITLE: Biomonitoring for Populations Exposed to Aromatic Amines
STATUS: Started 6/85; Complete 9/88
CONTACT: NIOSH/DBBS/ETB, T. Lewis

170. CAS NO: * Various
CHEMICAL: Solvents
PROJECT TYPE: Toxicology
TITLE: Percutaneous Absorption Characteristics of Occupational Chemicals
STATUS: Started 10/84; Complete 9/89
CONTACT: NIOSH/DBBS/ETB, A. Susten

171. CAS NO: * 75-15-0
CHEMICAL: Carbon Disulfide
PROJECT TYPE: Toxicology
TITLE: Occupational Cardiac Toxicity
STATUS: Started 10/84; Complete 6/86
CONTACT: NIOSH/DBBS/ETB, D. Lynch

172. CAS NO: * 1317-36-8; 1314-87-0
CHEMICAL: Lead Oxide, Lead Sulfide
PROJECT TYPE: Toxicology
TITLE: Comparative Inhalation Toxicity of Lead Oxide and Lead Sulfide
STATUS: Started 10/84; Complete 9/86
CONTACT: NIOSH/DBBS/ETB, D. Lynch

173. CAS NO: * 68-12-2
CHEMICAL: Dimethylformamide
PROJECT TYPE: Toxicology
TITLE: Carcinogenicity of Dimethylformamide
STATUS: Started 9/85; Complete 12/89
CONTACT: NIOSH/DBBS/ETB, T. Lewis

174. CAS NO: * Various
CHEMICAL: Coal Slags; Silica
PROJECT TYPE: Toxicology
TITLE: Fibrogenicity of Coal Slags
STATUS: Started 10/82; Complete 9/85
CONTACT: NIOSH/DBBS/ETB, T. Lewis

175. CAS NO: * Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis; Toxicology
TITLE: Particulate and Tissue Analysis Service and Research
STATUS: Started 10/82; Continuing
CONTACT: NIOSH/DBBS/ETB, L. Stettler

176. CAS NO: * 1332-21-4; Various
CHEMICAL: Asbestos; Asbestos Substitutes
PROJECT TYPE: Toxicology
TITLE: Evaluation of Mesothelioma Production by Asbestos Substitutes
STATUS: Started 10/84; Complete 9/84
CONTACT: NIOSH/DBBS/ETB, F. Platek

177. CAS NO: * Various
CHEMICAL: Pyrene; Coal Tar
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Biomonitoring of Exposure to Coal Tar
STATUS: Started 10/83; Complete 9/86
CONTACT: NIOSH/DBBS/ETB, B. Tolos

178. CAS NO: Various
CHEMICAL: Coal Slags; Silica
PROJECT TYPE: Toxicology
TITLE: Fibrogenicity of Coal Slags
STATUS: Started 10/82; Complete 9/85
CONTACT: NIOSH/DBBS/TSB, L. Stettler

179. CAS NO: 68-12-2
CHEMICAL: Dimethylformamide; Solvents
PROJECT TYPE: Toxicology
TITLE: Chronic Biological Effects of Dimethylformamide
STATUS: Started 1/79; Complete 9/85
CONTACT: NIOSH/DBBS/TSB, W. Wagner

180. CAS NO: Various
CHEMICAL: Various
PROJECT TYPE: Monitoring, Sampling, and Analysis; Toxicology
TITLE: Particulate and Tissue Analysis Service and Research
STATUS: Started 10/82, Continuing
CONTACT: NIOSH/DBBS/TSB, L. Stettler

181. CAS NO: Various
CHEMICAL: Cotton Dusts
PROJECT TYPE: Toxicology
TITLE: Cotton Dusts and Extracts, Pulmonary Responses
STATUS: Started 10/81; Complete 9/85
CONTACT: NIOSH/DRDS/LIB, P. Miles

182. CAS NO: Various
CHEMICAL: Cotton Dusts
PROJECT TYPE: Epidemiology; Toxicology
TITLE: Endotoxins in Cotton
STATUS: Started 10/82; Complete 9/85
CONTACT: NIOSH/DRDS/LIB, S. Olenchock

183. CAS NO: Various
CHEMICAL: Coal Dust, Diesel Exhaust
PROJECT TYPE: Toxicology
TITLE: Microbiological and Mutagenesis Studies
STATUS: Started 10/82; Continuing
CONTACT: NIOSH/DRDS/LIB, T. Ong

184. CAS NO: Various
CHEMICAL: Cotton Dusts; Various
SOURCE: Coal Mining; Mining; Textile Industry
PROJECT TYPE: Epidemiology; Toxicology
TITLE: Comparative Research in Analytical Pathology
STATUS: Started 10/82; Continuing
CONTACT: NIOSH/DRDS/LIB, F. Green

185. CAS NO: Various
CHEMICAL: Selenium; Aerosols; Arsenic; Vanadium; Copper; Zinc; Heavy Metals
PROJECT TYPE: Toxicology
TITLE: Physiology and Pharmacology of Occupational Respiratory Disease
STATUS: Started 10/83; Continuing
CONTACT: NIOSH/DRDS/LIB, K. Weber

186. CAS NO: Various
CHEMICAL: Cotton Dusts
SOURCE: Textile Industry
PROJECT TYPE: Epidemiology; Toxicology
TITLE: Evaluation of the Effects of Washed Cotton
STATUS: Started 10/81; Complete FY 85
CONTACT: NIOSH/DRDS/CIB, R. Castellan

187. CAS NO: 1309-37-1; 1332-37-2; 1345-25-1
CHEMICAL: Iron Oxide
SOURCE: Welding; Steel Industry
PROJECT TYPE: Epidemiology
TITLE: Morbidity and Industrial Hygiene Study of Mild Steel Workers
STATUS: Started 10/81; Complete FY 85
CONTACT: NIOSH/DRDS/CIB, A. Patil

188. CAS NO: * Various
CHEMICAL: Diesel Exhaust
PROJECT TYPE: Epidemiology
TITLE: Occupational Lung Disease Associated with Exposure to Diesel Emissions
STATUS: Started 10/81; Complete 9/86
CONTACT: NIOSH/DRDS/ENIB, M. McCawley

189. CAS NO: * Various
CHEMICAL: Various
SOURCE: Welding; Steel Industry
PROJECT TYPE: Epidemiology
TITLE: Prospective Cohort and Industrial Hygiene Study of Mild Steel Welders
STATUS: Started 10/83; Complete 10/91
CONTACT: NIOSH/DRDS/ENIB, P. Hewett

190. CAS NO: * Various
CHEMICAL: Silica
PROJECT TYPE: Monitoring, Sampling, and Analysis
TITLE: Effective Silica Indices of Respirable Mineral Dusts
STATUS: Started 10/84; Complete 9/88
CONTACT: NIOSH/DRDS/ENIB, W. Wallace

191. CAS NO: * Various
CHEMICAL: Various
SOURCE: Energy Industry; Oil Shale Processes
PROJECT TYPE: Epidemiology
TITLE: Occupational Health Studies in Emerging Energy Industries
STATUS: Started 8/81; Complete 9/85
CONTACT: NIOSH/DRDS/ENIB, W. Wallace

192. CAS NO: * Various
CHEMICAL: Aerosols; Organic Compounds
SOURCE: Agriculture
PROJECT TYPE: Toxicology
TITLE: Micro-organisms in HVAC Systems
STATUS: Started 10/82; Complete 9/85
CONTACT: NIOSH/DRDS/ENIB, P. Morey

193. CAS NO: * Various
CHEMICAL: Various
SOURCE: Mining
PROJECT TYPE: Epidemiology
TITLE: National Occupational Health Survey of Mining
STATUS: Started 10/82; Complete 12/90
CONTACT: NIOSH/DRDS/ENIB, W. Carr

194. CAS NO: Various
CHEMICAL: Diesel Exhaust; Coal Dust
SOURCE: Mining
PROJECT TYPE: Epidemiology
TITLE: Epidemiologic Environmental Study - Coal Miners Exposed to Diesel Emissions
STATUS: Started 10/81; Completed 9/84; In Publication 1/85
CONTACT: NIOSH/DRDS/EPIB, R. Ames

195. CAS NO: 50-32-8; 56-55-3; Others
CHEMICAL: Diesel Exhaust; Polynuclear Aromatic Hydrocarbons; Benzo(A)Pyrene; Benz(A)Anthracene;
SOURCES: Silica; Coal Dust; Asbestos Mining; Cargo Transport; Granite Industry; Cement Industry; Crushed Stone Industry
PROJECT TYPE: Epidemiology
TITLE: Mortality of Miners and Related Workers
STATUS: Started 10/78; Complete FY 88
CONTACT: NIOSH/DRDS/EPIB, J. Costello

196. CAS NO: Various
CHEMICAL: Various
SOURCE: Non-metallic Minerals Industry; Mining
PROJECT TYPE: Epidemiology
TITLE: Studies of Miners and Millers of Non-Metallic Ores
STATUS: Started 1/77; Completed 10/84; In Publication 1/85
CONTACT: NIOSH/DRDS/EPIB, J. Gamble

197. CAS NO: Various
CHEMICAL: Silica
SOURCE: Mining
PROJECT TYPE: Epidemiology
TITLE: Assessment of Coal Workers Pneumoconiosis and Respiratory Disease in Surface Miners
STATUS: Started 10/82; Complete 9/85
CONTACT: NIOSH/DRDS/EPIB, H. Amandus

198. CAS NO: Various
CHEMICAL: Coal Dust
SOURCE: Mining
PROJECT TYPE: Epidemiology
TITLE: National Coal Study and Coal Worker Surveillance
STATUS: Started 10/81; Continuing
CONTACT: NIOSH/DRDS/EPIB, M. Attfield

199. CAS NO: * Various
CHEMICAL: Silica; Asbestos
PROJECT TYPE: Epidemiology
TITLE: Study of Workers in the Dusty Trades in North Carolina - NCI
STATUS: Started FY 84; Complete FY 87
CONTACT: NIOSH/DRDS/EPIB, H. Amandus

200. CAS NO: * Various
CHEMICAL: Silica
SOURCE: Sand Industry
PROJECT TYPE: Epidemiology
TITLE: Health Experience of Industrial Sand Workers
STATUS: Started FY 84; Complete FY 87
CONTACT: NIOSH/DRDS/EPIB, H. Amandus

201. CAS NO: * 50-00-0
CHEMICAL: Formaldehyde
PROJECT TYPE: Epidemiology
TITLE: Effects of Formaldehyde on the Respiratory System
STATUS: Started FY 84; Complete FY 87
CONTACT: NIOSH/DRDS/EPIB, J. Gamble

202. CAS NO: Various
CHEMICAL: Various
SOURCE: Automobile Industry
PROJECT TYPE: Epidemiology
TITLE: Mortality Analysis of United Auto Workers Cohorts
STATUS: Started 10/80; Completed 9/83; In Publication 1/85
CONTACT: NIOSH/DSHEFS/IWSB, R. Roscoe

203. CAS NO: Various
CHEMICAL: Various
SOURCE: Automobile Industry; Woodworking
PROJECT TYPE: Epidemiology
TITLE: Mortality and Industrial Hygiene Study of Wood Die and Model Makers
STATUS: Started 10/80; Complete FY 85
CONTACT: NIOSH/DSHEFS/IWSB, R. Roscoe

204. CAS NO: 75-21-8
CHEMICAL: Ethylene Oxide
SOURCE: Chemical Industry
PROJECT TYPE: Epidemiology
TITLE: Mortality Study of Chemical Plants in Kanawha Valley, West Virginia
STATUS: Started 10/79; Complete FY 85
CONTACT: NIOSH/DSHEFS/IWSB, R. Rinsky

205. CAS NO: 108-88-3
CHEMICAL: Toluene
PROJECT TYPE: Epidemiology
TITLE: Mortality and Industrial Hygiene Study of Workers Exposed to Toluene
STATUS: Started 10/79; Complete FY 85
CONTACT: NIOSH/DSHEFS/IWSB, F. Stern

206. CAS NO: 1333-86-4; Others
CHEMICAL: Polycyclic Aromatic Hydrocarbons; Carbon Black
SOURCE: Newspaper Industry
PROJECT TYPE: Epidemiology
TITLE: An Assessment of Worker Exposure in the Newsprint Industry
STATUS: Started 10/82; Complete FY 85
CONTACT: NIOSH/DSHEFS/IWSB, Hills

207. CAS NO: 50-00-0
CHEMICAL: Formaldehyde
PROJECT TYPE: Epidemiology
TITLE: Mortality and Industrial Hygiene Study of Formaldehyde
STATUS: Started 10/80; Complete 3/85
CONTACT: NIOSH/DSHEFS/IWSB, L. Stayner

208. CAS NO: 75-21-8
CHEMICAL: Ethylene Oxide
PROJECT TYPE: Epidemiology
TITLE: Ethylene Oxide Mortality Study - NCI
STATUS: Started 10/82; Complete 9/85
CONTACT: NIOSH/DSHEFS/IWSB, L. Stayner

209. CAS NO: 101-14-4
CHEMICAL: MOCA
PROJECT TYPE: Epidemiology
TITLE: Investigation of Workers Exposed to MOCA
STATUS: Started 10/82; Complete 9/85
CONTACT: NIOSH/DSHEFS/IWSB, E. Ward

210. CAS NO: Various
CHEMICAL: Hydrazines; Hexanes
PROJECT TYPE: Epidemiology
TITLE: Industrial Hygiene Study of New Agents-IV - NCI
STATUS: Started 10/81; Complete 9/85
CONTACT: NIOSH/DSHEFS/IWSB, Fajen

211. CAS NO: 95-95-4; 87-86-5; Others
CHEMICAL: Dioxins; 2,4,5-Trichlorophenol; Pentachlorophenol
PROJECT TYPE: Epidemiology
TITLE: Mortality of Dioxin Workers
STATUS: Started 10/79; Complete 9/85
CONTACT: NIOSH/DSHEFS/IWSB, Fingerhut

212. CAS NO: 1336-36-3; 127-18-4; 100-42-5; 106-99-0; 71-43-2; 7440-43-9; 75-01-4; Others
CHEMICAL: Polychlorinated Biphenyls (PCB); Perchloroethylene; Pesticides; Rubber; Styrene; Butadiene; Benzene; Cadmium; Vinyl Chloride
PROJECT TYPE: Epidemiology
TITLE: Update of Completed Cohort Mortality Studies - NCI
STATUS: Started 10/82; Complete 9/85
CONTACT: NIOSH/DSHEFS/IWSB, D. Brown

213. CAS NO: Various
CHEMICAL: Lead Chromate; Chromium
PROJECT TYPE: Epidemiology
TITLE: Mortality and Industrial Hygiene Characteristics of Workers Exposed to Lead Chromate Paints - NCI
STATUS: Started 10/82; Complete 9/85
CONTACT: NIOSH/DSHEFS/IWSB, M. Herrick

214. CAS NO: Various
CHEMICAL: Various
SOURCE: Chemical Industry
PROJECT TYPE: Epidemiology
TITLE: Chromosomal Aberrations and Occupational Carcinogenesis
STATUS: Started 10/82; Complete 9/85
CONTACT: NIOSH/DSHEFS/IWSB, T. Meinhardt

215. CAS NO: 7440-41-7
CHEMICAL: Beryllium
PROJECT TYPE: Epidemiology
TITLE: Beryllium Retrospective Cohort Investigation - NCI
STATUS: Started 10/81; Complete 9/85
CONTACT: NIOSH/DSHEFS/IWSB, A. Okun

216. CAS NO: 106-93-4; 75-21-8; 7440-61-1
CHEMICAL: Ethylene Oxide; Uranium; Ethylene Dibromide
PROJECT TYPE: Epidemiology; Toxicology
TITLE: Cytogenetic Assays and Analysis of Occupational Populations
STATUS: Started 10/82; Complete 9/86
CONTACT: NIOSH/DSHEFS/IWSB, T. Meinhardt, K. Steenland

217. CAS NO: Various
CHEMICAL: Various
PROJECT TYPE: Epidemiology
TITLE: Medical, Biometric and Industrial Hygiene Study of Emerging Problems
STATUS: Started 10/79; Continuing
CONTACT: NIOSH/DSHEFS/IWSB, W. Halperin

218. CAS NO: Various
CHEMICAL: Various
PROJECT TYPE: Epidemiology; Health Assessment
TITLE: Health Hazard Evaluations and Technical Assistance
STATUS: Started 10/80; Continuing
CONTACT: NIOSH/DSHEFS/IWSB, J. Melius

219. CAS NO: 117-81-7; 75-21-8; 50-00-0; 101-14-4; Others
CHEMICAL: DEHP; Ethylene Oxide; MOCA; Formaldehyde; Organotin; Glycol Ethers
PROJECT TYPE: Epidemiology; Health Assessment
TITLE: Epidemiologic and Industrial Support of Toxic Substances Control Act - EPA
STATUS: Started 10/81; Continuing
CONTACT: NIOSH/DSHEFS/IWSB, D. Brown

220. CAS NO: * 7440-36-0
CHEMICAL: Antimony
SOURCE: Smelters
PROJECT TYPE: Epidemiology
TITLE: Cohort Mortality Study of Antimony Smelter Workers
STATUS: Started FY 84; In Progress FY 85
CONTACT: NIOSH/DSHEFS/IWSB, Schnorr

221. CAS NO: * 106-99-0
CHEMICAL: Butadiene
SOURCE: Chemical Industry
PROJECT TYPE: Exposure Assessment
TITLE: Exposure to Butadiene in the Industrial Environment
STATUS: Started FY 84; In Progress FY 85
CONTACT: NIOSH/DSHEFS/IWSB, Fajen

222. CAS NO: * 630-08-0
CHEMICAL: Carbon Monoxide
SOURCE: Mobile Sources
PROJECT TYPE: Epidemiology
TITLE: Occupational Exposure to Carbon Monoxide
STATUS: Started FY 80; In Progress FY 85
CONTACT: NIOSH/DSHEFS/IWSB, F. Stern

223. CAS NO: * 1746-01-6
CHEMICAL: Dioxins; 2,3,7,8-Tetrachlorodibenzo-p-dioxin
PROJECT TYPE: Epidemiology
TITLE: Morbidity and Reproductive Studies of Worker Cohorts Exposed to Dioxin
STATUS: Started FY 84; In Progress FY 85
CONTACT: NIOSH/DSHEFS/IWSB, Schnorr

224. CAS NO: * Various
CHEMICAL: Dyes
PROJECT TYPE: Toxicology
TITLE: Characterization of Exposure and Metabolism of o-Tolidine and o-Dianisidine Based Dyes
STATUS: In Progress FY 85
CONTACT: NIOSH/DSHEFS/IWSB, M. Herrick

225. CAS NO: * 75-21-8
CHEMICAL: Ethylene Oxide
PROJECT TYPE: Epidemiology
TITLE: Characterization of Worker Exposure to Ethylene Oxide
STATUS: Started FY 84; In Progress FY 85
CONTACT: NIOSH/DSHEFS/IWSB, Ringenburg

226. CAS NO: * Various
CHEMICAL: Chlorinated Napthalenes
PROJECT TYPE: Epidemiology
TITLE: Mortality Study of Workers Exposed to Chlorinated Napthaleres
STATUS: Started FY 84; In Progress FY 85
CONTACT: NIOSH/DSHEFS/IWSB, E. Ward

227. CAS NO: * Various
CHEMICAL: Nitrosamines
SOURCE: Leather Industry
PROJECT TYPE: Epidemiology
TITLE: Health Effects from Occupational Exposure to Nitrosamines in the Leather Industry
STATUS: Started FY 84; In Progress FY 85
CONTACT: NIOSH/DSHEFS/IWSB, F. Stern

228. CAS NO: * 101-77-9
CHEMICAL: Methylenedianiline
PROJECT TYPE: Epidemiology
TITLE: Causes of Mortality Among Workers Exposed to Methylenedianiline (MDA)
STATUS: Started FY 84; In Progress FY 85
CONTACT: NIOSH/DSHEFS/IWSB, Boeniger

229. CAS NO: * Various
CHEMICAL: Various
SOURCE: Steel Industry; Welding
PROJECT TYPE: Epidemiology
TITLE: Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium
STATUS: Started FY 84; In Progress FY 85
CONTACT: NIOSH/DSHEFS/IWSB, K. Steenland

230. CAS NO: * 7664-93-9
CHEMICAL: Sulfuric Acid
SOURCE: Steel Industry
PROJECT TYPE: Epidemiology
TITLE: Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills
STATUS: Started FY 84; In Progress FY85
CONTACT: NIOSH/DSHEFS/IWSB, K. Steenland

231. CAS NO: * Various
CHEMICAL: Diesel Exhaust
SOURCE: Mobile Sources
PROJECT TYPE: Epidemiology
TITLE: Study of Lung Cancer Mortality Among Teamsters
STATUS: Started FY 84; In Progress FY 85
CONTACT: NIOSH/DSHEFS/IWSB, K. Steenland

232. CAS NO: * 26471-62-5
CHEMICAL: Toluene Diisocyanate
PROJECT TYPE: Epidemiology
TITLE: Cohort Mortality Study of Toluene Diisocyanate Exposed Workers
STATUS: Started FY 84; In Progress FY 85
CONTACT: NIOSH/DSHEFS/IWSB, Schnorr

233. CAS NO: * 10043-92-2
CHEMICAL: Radon
SOURCE: Uranium Mines; Mining
PROJECT TYPE: Epidemiology
TITLE: Long Term Effects of Exposure to Low Doses of Radon Daughters - NCI
STATUS: Started FY 84; In Progress FY 85
CONTACT: NIOSH/DSHEFS/IWSB, R. Roscoe

234. CAS NO: * Various
CHEMICAL: Fibrous Glass
PROJECT TYPE: Epidemiology
TITLE: Historical Cohort Study of Respiratory Disease in Men Occupationally Exposed to Fibrous Glass
STATUS: Started FY 74; In Progress FY 85
CONTACT: NIOSH/DSHEFS/IWSB, Walker

235. CAS NO: * Various
CHEMICAL: Organotin
SOURCE: Chemical Industry
PROJECT TYPE: Epidemiology
TITLE: Effects of Biocidal Organotin Compounds on Male Reproductive Function
STATUS: Started FY 84; In Progress FY 85
CONTACT: NIOSH/DSHEFS/IWSB, Fajen

236. CAS NO: * 1336-36-3
CHEMICAL: Polychlorinated Biphenyls (PCB)
PROJECT TYPE: Epidemiology
TITLE: Composite Study of Worker Exposure to PCB
STATUS: Started FY 76; In Publication FY 85
CONTACT: NIOSH/DSHEFS/IWSB, Roberts

237. CAS NO: * 10043-92-2
CHEMICAL: Radon
SOURCE: Foundries
PROJECT TYPE: Epidemiology
TITLE: Radon Daughter Surveys of Foundries Using Zirconium Sand
STATUS: Started FY 84; In Progress FY 85
CONTACT: NIOSH/DSHEFS/IWSB, Bloom

238. CAS NO: * 7664-93-9
CHEMICAL: Sulfuric Acid
SOURCE: Steel Industry
PROJECT TYPE: Epidemiology
TITLE: Mortality of Sulfuric Acid Exposed Workers
STATUS: In Publication FY 85
CONTACT: NIOSH/DSHEFS/IWSB, J. Beaumont

239. CAS NO: Various
CHEMICAL: Various
PROJECT TYPE: Epidemiology
TITLE: Access to National Occupational Hazard Survey Data Base - Profile Development
STATUS: Started 10/78; Continuing
CONTACT: NIOSH/DSHEFS/SB, J. Seta

240. CAS NO: Various
CHEMICAL: Various
PROJECT TYPE: Epidemiology
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STATUS: Started 10/79, Continuing
CONTACT: NIOSH/DSHEFS/SB, W. Crouse

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PART 3. CHEMICAL NAME SYNONYM LIST

CAS NO.	NAME
50-00-0	Formaldehyde (8C1)(9C1)
	Methyl aldehyde
	Methylene oxide
	Paraform (VAN)
	Methanal
	Oxomethane
	Formalin
	Superlysoform
	Morbicid
	Lysoform
	Methaldehyde
	Ivalon
	Fannoform
	BFV
	Formol
	Formic aldehyde
	Fyde
	Oxymethylene
	Formalith
	Formaldehyde, gas
	Formaldehyde solution
50-32-8	Benzo(a)pyrene (8C1)(9C1)
	3,4-Benz[a]pyrene
	Benzo(a)pyrene
	Benzo[a]pyrene
	3,4-Benzpyrene
	Benzo(d,e,f)chrysene
	Benz[a]pyrene
	Benz(a)pyrene
	6,7-Benzopyrene
	3,4-Benzopyrene
	3,4-Benzopyrene/Carcinogen/Benzo[d,e,f] chrysene
	Benzo[d,e,f]chrysene
	3,4-Benz(a)pyrene
50-78-5	p-Aminophenol, hydrochloride salt
53-70-3	Dibenz(a,h)anthracene (8C1)(9C1)
	1,2:5,6-Dibenz[a]anthracene
	1,2:5,6-Dibenz(a)anthracene
	1,2:5,6-Dibenzanthracene
	DBA (VAN)
	1,2:5,6-Benzanthracente
	1,2:5,6-Dibenzoanthracene
56-23-5	Methane, tetrachloro-(9C1)
	Necatorina
	Carbona (VAN)
	Carbon chloride/CC14/
	Carbon chloride/CC14/
	Vermoestricid (VAN)
	Tetrasol (VAN)
	Univerm (VAN)
	Carbon tetrachloride (8C1)
	Tetrafinol
	Flukoids (VAN)
	R 10
	Tetraform (VAN)
	Tetrachloromethane
	Benzinoform
	Perchloromethane
56-55-3	Benz(a)anthracene (8C1)(9C1)
	Benzo[a]anthracene
	1,2-Benz(a)anthracene
	1,2-Benzoanthracene
	Benzoanthracene
56-55-3-Contd	1,2-Benz[a]anthracene
	Benzo(b)phenanthrene
	2,3-Benzophenanthrene
	Benzo[b]phenanthrene
	Benzo(a)anthracene
	1,2-Benzanthracene
	Benz[a]anthracene
	Benzanthracene
	Tetraphene
	1,2-Benzanthrene
	Benzanthrene
60-12-8	Phenylethanol
	Phenethyl alcohol
	Benzyl carbinol
	2-Phenylethanol
	.beta.-Hydroxyethylbenzene
	Benzylmethanol
	PEA
	.beta.-PEA
	Phenethanol
	.beta.-Phenethyl alcohol
	2-Phenethyl alcohol
	.beta.-Phenethanol
	.beta.-Phenylethyl alcohol
	2-Phenylethyl alcohol
67-66-3	Methane, trichloro-(9C1)
	Chloroform (8C1)
	Trichloromethane
	R20 (VAN)
	R 20/refrigerant/
	Trichloroform
68-12-2	Formamide, N,N-dimethyl- (8C1)(9C1)
	DMF (VAN)
	N-Formyldimethylamine
	Dimethylformamide
	DMFA
	DMF (amide)
	N,N-Dimethylformaide
71-43-2	Benzene (8C1)(9C1)
	Phenyl hydride
	Coal naphtha
	Pyrobenzole
	(6)Annulene
	Pyrobenzol
	Cyclohexatriene
	Benzole
	Phene
	Benzol
71-55-6	Ethane, 1,1,1-trichloro- (8C1)(9C1)
	Chlorothene NU
	Chlorten
	Methyltrichloromethane
	1,1,1-Trichloroethane
	Chlorotene
	Trichloroethane (VAN)
	Chlorothene
	.alpha.-Trichloroethane
	.alpha.-T.
	Methyl chloroform
	Methylchloroform
	Aerothene TT
	Chlorothene VG
	Inhibisol
	Chlorothane NU
	Chloramine Blue 3B

74-82-8 Methane (8Cl)(9Cl)
Methyl hydride
Marsh gas

75-01-4 Ethene, chloro- (9Cl)
Monochloroethylene
Ethylene, chloro- (8Cl)
Vinyl C monomer
Vinyl chloride
Chloroethene
Chloroethylene

75-09-2 Methane, dichloro- (8Cl)(9Cl)
Methylene dichloride
Aerothene MM
Solaesthin
Methylene chloride
Solmethine
Narkoti
Dichloromethane
R 30

75-15-0 Carbon disulfide (8Cl)(9Cl)
Dithiocarbonic anhydride
Carbon bisulfide
Carbon disulphide
Carbon sulfide/CS2/
Carbon bisulphide

75-21-8 Oxirane (9Cl)
1,2-Epoxyethane (VAN)
Dihydrooxirene (VAN)
ETO (VAN)
T-Gas
Oxidoethane
Oxacyclopropane
Oxane (VAN)
Ethylene oxide (8Cl)
Oxyfume 12
Epoxyethane
Oxirene, dihydro
Dimethylene oxide (VAN)
Oxyfume
Ethene oxide

75-35-4 Ethene, 1,1-dicloro (9Cl)
Vinylidene chloride
Ethylene, 1,1-dichloro- (8Cl)
VDC
Vinylidene chloride
1,1-Dichloroethane
Vinylidene chloride (11)
1,1-Dichloroethene
Vinylidene dichloride
1,1-Dichloroethene
1,1-DCE
Ethylene, 1,1-dichloro-(8Cl)
1,1-Dichloroethylene
Sconatex

75-44-5 Carbonic dichloride (9Cl)
Carbon dichloride oxide
Carbonyl dichloride
Carbonyl chloride
CG
Phosgene (8Cl)
Chloroformyl chloride
Phosgen
Phosgene
Carbon oxychloride

76-13-1 Ethane, 1,1,2-trichloro-1,2,2-trifluoro-
1,1,2-Trifluoro-1,2,2-trichlorcethane
1,1,2-Trichloro-1,2,2-trifluoroethane
Freson 113
Fluorocarbon 113
Ucon Fluorocarbon 113
CFC 113
UCON 113
Trichlorotrifluoroethane (VAN)
Frigen 113 TR-T
Chlorofluorocarbon 113
F-113

77-47-4 1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-
(8Cl)(9Cl)
1,2,3,4,5,5-Hexachloro-1,3-cyclopentadiene
HRS 1655
C 56
Perchlorocyclopentadiene
Graphlox
Hexachlorocyclopentadiene

78-00-2 Plumbane, tetraethyl- (8Cl)(9Cl)
Lead, tetraethyl-
Tetraethyl lead
Tetraethyllead
Tetraethylplumbane
TEL

78-40-0 Phosphoric acid, triethyl ester
Triethyl phosphate

79-01-6 Ethene, trichloro- (9Cl)
Threthylene
Ethylene trichloride
Trethylene
Trichloroethylene
Narcogen
Trichloren
Tri
Westrosol
Trimar
Chlorylen
Trichloroethene
Germalgene
Chlorilen
Chorylen
Anamenth
Densinfluat
Fluate
Trilen
Trilene
Trichloran
Threthylen
Ethylene, tirchloro- (8Cl)
Triclene
Narkosoid
Algylen
Ethinyl trichloride

85-41-6 Phthalimide
Isoindole-1,3-dione
1,3-Isoindoledione
1,3-Isoindolinedione
o-Phthalic imide

85-44-9 1,3-Isobenzofurandione (9Cl)
1,2-Benzenedicarboxylic acid anhydride
1,2-Benzenedicarboxylic anhydride

84-55-9-Contd
ESEN
Phthalic acid anhydride
TGL 6525
Vulkalent B/C
Retarder PD
Retarder ESEN
1,3-Phthalandione
Phthalic anhydride (8CI)
Phthalandione
Retarder AK

87-86-5 Phenol, pentachloro- (8CI)(9CI)
PCP (VAN)
Liroprem
Preventol P
Dowicide 7
Grundier Arbezol
PCP/pesticide/
Penchlorol
EP 30
Fungifen
Penta
RCi 49-162
Permasan
Pentachlorophenol
Permatox DP-2
Lauxtol
Santophen 20

95-53-4 Benzenamine, 2-methyl- (9CI)
o-Methylbenzenamine
2-Methyl-1-aminobenzene
2-Methylaniline
1-Amino-2-methylbenzene
o-Methylaniline
o-Tolyiamine
2-Toluidine
o-Toluidine (8CI)
2-Methylbenzenamine
o-Aminotoluene
2-Aminotoluene

95-95-4 Phenol, 2,3,5-trichloro- (8CI)(9CI)
Preventol I
2,4,5-Trichlorophenol
TCP (VAN)
Dowicide 2

97-55-6 o-Aminophenol

100-42-5 Benzene, ethenyl- (9CI)
Phenethylene
Styropol SO
Phenylethene
Styrol
Styrene (8CI)
Vinylbenzol
Vinylbenzene
Cinnamene
Styrole
Styrolene
Phenylethylene

101-14-4 Benzenamine, 4,4'-methylenebis
[2-chloro]-
MOCA
4,4'-Methylenebis(2-chloroaniline)
4,4'-Methylenebis(2-chlorobenzenamine)
4,4'-Methylene-bis-(2-chloroaniline)

101-77-9 Benzenamine, 4,4'-methylenebis- (9CI)
4,4'-Methylenebis(aniline)
4-(4-Aminobenzyl)aniline
Epikure DDM
p,p-Methylenedianiline
Diaminodiphenylmethane (VAN)
Epicure DDM
4,4'-Diphenylmethanediamine
DADPM
HT 972
4,4'-Diaminodiphenylmethane
Aniline, 4,4'-methylenedi- (8CI)
DAPM
Di(4-aminophenyl)methane
p,p'-Diaminodiphenylmethane
Dianilinemethane (VAN)
Bis(p-Aminobenzyl)aniline
Methylenedianiline (VAN)
MDA
Dianiliomethane (VAN)
DDM
Methylenebis(aniline) (VAN)
Tonox

103-45-7 Phenylethanol acetate
Acetic acid, phenethyl ester
Acetic acid, 2-phenethyl ester
Benzyl carbinyl acetate
2-Phenylethanol acetate
Phenethyl acetate
.beta.-Phenethyl acetate
2-Phenethyl acetate
.beta.-Phenylethylacetate
2-Phenylethylacetate

106-89-8 Oxirane, (chloromethyl)- (9CI)
Gamma-Chloropropylene oxide
Glycidyl chloride
1,2-Epoxy-3-chloropropane
Glycerol epichlorohydrin
.gamma.-Chloropropylene oxide
(Chloromethyl)ethylene oxide
Oxirane, 2-(chloromethyl)-
3-Chloropropylene oxide
Chloropropylene oxide
SKEKhG
2,3-Epoxypropyl chloride
1-Chloro-2,3-epoxypropane (VAN)
3-Chloro-1,2-propylene oxide
3-Chloro-1,2-epoxypropane (VAN)
Propane, 1-chloro-2,3-epoxy- (8CI)
Epichlorohydrin
Ic-Epichlorohydrin
(Chloromethyl)oxirane
3-Chloropropene-1,2-oxide
2-Chloromethyl oxirane

106-93-4 Ethane, 1,2-dibromo- (8CI)(9CI)
Seilbrom-85
Nefis
Ethylene bromide
Dowfume W-85
Dowfume W85
Dowfume W-8
Sanhyuum
Glycol dibromide
1,2-Dibromoethane
sym-Dibromoethane

106-93-4-Contd
Ethylene dibromide
1c, 1b-Dibromoethane
Iscobrome D
.alpha.,.beta.-Dibromoethane
Solifume
Aadibroom
Bromofume
EDB
Pestermeister EDB-85

106-99-0 1,3-Butadiene
Pyrrolylene
Vinylethylene
.alpha.,.gamma.-Butadiene
Divinyl
Erythrene
Buta-1,3-diene
Butadiene
Bivinyl
Biethylene

107-02-8 2-Propenal (9CI)
2-Propen-1-one
Aqualin
NSC 8819
Acrylic aldehyde
Acrolein (8CI)
Allyl aldehyde
Propenal
Prop-2-en-1-al
Acrylaldehyde

107-06-2 Ethane, 1,2-dichloro- (8CI)(9CI)
1c, 1b-Dichloroethane
sym-Dichloroethane
EDC
1,2-Bichloroethane
Ethylene dichloride
.alpha.,.beta.-Dichloroethane
Brocide
Ethylene chloride
1,2-Dichloroethane
Dutch liquid
Glycol dichloride

107-11-9 2-Propene-1-amine
3-Aminopropene
Allylamine (8CI)
3-Aminopropene
Monoallylamine
2-Propenamine

107-13-1 2-Propenenitrile (9CI)
Carbacryl
VCN
Acrylon
Acrylonitrile (8CI)
Propenenitrile
Acritet
Vinyl cyanide
Fumigrain
Cyanoethylene
Ventox

107-30-2 Methane, chloromethoxy- (9CI)
Monochloromethyl methyl ether
Ether, chloromethyl methyl (8CI)
Chloromethoxymethane
Methoxychloromethane

107-30-2-Contd
Methoxymethyl chloride
.alpha.,.alpha.-Dichlorodimethyl ether
Monochlorodimethyl ether
Chlorodimethyl ether
Methyl chloromethyl ether
Chloromethyl methyl ether

108-05-4 Acetic acid ethenyl ester (9CI)
Acetic acid vinyl ester (8CI)
Acetic acid, ethenyl ester
Vinyl acetate
Vinyl A monomer
VyAc
Ethenyl acetate
1-Acetoxyethylene

108-05-4 Benzene, methyl- (9CI)
Methylbenzol
Toluol
Toluene (8CI)
Methacide
Methylbenzene
Antisal 1a
Phenylmethane

108-95-2 Phenol (8CI)(9CI)
Monophenol
Izal
Carbolic acid
Hydroxybenzene
Phenic acid
Oxybenzene
Phenyl alcohol
Monohydroxybenzene
Phenylic alcohol
Phenyl hydroxide
Phenyl hydrate
Benzenol
Phenylic acid

109-86-4 Ethanol, 2-methoxy- (8CI)(9CI)
2-Methoxy-1-ethanol (VAN)
1b-Methoxyethanol (VAN)
Ethylene glycol monomethyl ether
1-Hydroxy-2-methoxyethane (VAN)
Poly-Solv EM
Methoxyethanol
Methyl cellosolve
2-Methoxyethanol
Dowanol EM

110-80-5 Ethanol, 2-ethoxy- (8CI)(9CI)
Oxitol
Ethylene glycol ethyl ether
2-Ethoxyethanol
Glycol monoethyl ether
.beta.-Ethoxyethanol
Emkanol
Ethyl glycol
Poly-Solv EE
Cellosolve
Ethylene glycol monoethyl ether
Ethyl Cellosolve

111-96-6 Ethane, 1,1'-oxybis[2-methoxy-] (9CI)
Ether, bis[2-methoxyethyl]- (8CI)
Bis[2-methoxyethyl]ether
1,1'-Oxybis[2-methoxyethane]

117-81-7 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl)ester (9CI)
Vestinol AH
Octyl phthalate (VAN)
Witcizer 312
Bisoflex 81
1,2-Benzenedicarboxylic acid, bis (ethylhexyl) ester
Eviplast 80
Eviplast 81
Sicol 150
Staflex DOP
Compound 889
Kodaflex DOP
Bisoflex DOP
Di-(2-ethylhexyl)-phthalate
Phthalic acid, bis(2-ethylhexyl) ester (8CI)
Di(ethylhexyl) phthalate
DOP
Fleximel
DEHP
2-Ethylhexyl phthalate (VAN)
Vinicizer 80
Truflex DOP
Palatinol AH
Flexol DOP
Ethylhexyl phthalate
Phthalic acid dioctyl ester (VAN)
Octoil
Bis(2-ethylhexyl) phthalate
Dioctyl phthalate
Bis(2-ethylhexyl) 1,2-benzene-dicarboxylate (VAN)
Pittsburgh PX-138

117-82-8 1,2-Benzenedicarboxylic acid, bis(2-methoxyethyl) ester (9CI)
Bis(2-methoxyethyl) phthalate
Dimethoxy ethyl phthalate
Bis(2-methoxyethyl) 1,2-benzenedicarboxylate
Phthalic acid, bis(2-methoxyethyl) ester
di(methoxyethyl) phthalate
Phthalic acid, di(methoxyethyl) ester (8CI)

121-44-8 Ethanamine, N,N-diethyl- (9CI)
(Diethylamino)ethane
Triethylamine (8CI)

123-30-8 p-Aminophenol

123-91-1 1,4-Dioxane (9CI)
1,4-Dioxine, tetrahydro-
Dioxyethylene ether
Dioxane (VAN)
Diethylene ether
1,4-Diethylene dioxide
Diethylene oxide
Tetrahydro-1,4-dioxane
1,4-Dioxan (VAN)
p-Dioxane (8CI)
p-Dioxan
Dioxan
1,4-Dioxacyclohexane

126-99-8 1,3-butadiene, 2-chloro- (8CI)(9CI)
2-Chlorobutadiene
2-Chloro-1,3-butadiene
Chloroprene

127-18-4 Ethene, tetrachloro- (9CI)
Fedal-Un (VAN)
Ethene, 1,1,2,2-tetrachloro-
Didakene
Tetraleno (VAN)
Tetrachloroethylene
Perchloroethylene (VAN)
Ethylene, tetrachloro- (8CI)
Ethylene tetrachloride
PerSec (VAN)
Antisal 1 (VAN)
Tetrachloroethene (VAN)
Tetropil (VAN)
Perclene
Nema (VAN)
Perchloroethylene (VAN)
Tetraguer (VAN)
1,1,2,2-Tetrachloroethylene (VAN)
Ankilostin
Tetlen
Tetrachlorethylene (VAN)
Tetracap (VAN)

132-32-7 Dibenzofuran

134-32-7 1-Naphthalenamine (9CI)
2-Naphthalamine (8CI)
Naphthalidine
.alpha.-Aminonaphthalene
1-Naphthalamine
Fast Garnet Base B
1-Naphthylamine (8CI)
.alpha.-Naphylamine
1-Aminonaphthalene
C.I. 37265
C.I. Azoic Diazo Component 114
Naphthalidam

530-63-3 Quinoline

630-08-0 Carbon monoxide (8CI)(9CI)
Carbon oxide/CO/

636-21-5 Benzenamine, 2-methyl-, hydrochloride
o-Toluidine hydrochloride
2-Methylaniline hydrochloride
2-Methylbenzenamine hydrochloride
Hydroxchloride o-toluidine

868-85-9 Dimethyl hydrogen phosphite
Phosphonic acid, dimethyl ester

1309-37-1 Iron oxide

1314-62-1 Vanadium oxide/V2O5/ (8CI)(9CI)
Vanadic anhydride
C.I. 77938
Vanadium(V) oxide
Divanadium pentaoxide
Divanadium pentoxide
Vanadium pentoxide

1314-87-0 Lead sulfide /PbS/ (8CI)(9CI)
Lead monosulfide (VAN)
C.I. 77640
Natural lead sulfide (VAN)
Lead sulfide (VAN)

1314-87-0-Contd
P 128
P 37
Lead(2) sulfide (VAN)
Lead(II) sulfide (VAN)
Plumbous sulfide (VAN)

1317-36-8
Lead oxide (PbO) (9C1)

1332-21-4
Asbestos (8C1)(9C1)
Asbestos fiber

1332-37-2
Iron oxide

1333-37-2
Carbon black (8C1)(9C1)
Corax P
Statex N 550
Witcoblak No. 100
C.I. 77266
Channel Black
Delussa Black FW
TM-30
Furnex N 765
C.I. Pigment Black 7
Carbon, amorphous
Sterling SO 1
Regal 99
Sterling NS
Printex 60
Philblack N 550
Philblack N 765
Sterling N 765
Columbia carbon
Metso 99
Uranium dioxide
Basic copper sulfate

1345-25-1
Iron oxide

1429-50-1
EDTMPA

1746-01-6
Dibenzo(b,e)(1,4)dioxin,
2,3,7,8-tetrachloro- (9C1)
Dioxin (herbicide contaminant) (VAN)
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8C1)
TCDD
2,3,7,8-Tetrachlorodibenzo-1,4-dioxin
2,3,7,8-Tetrachlorodibenzo-p-dioxin

7429-90-5
Aluminum (8C1)(9C1)

7439-93-2
Lithium (8C1)(9C1)

7439-96-5
Managanese (8C1)(9C1)

7440-02-0
Nickel (8C1)(9C1)

7440-36-0
Antimony (8C1)(9C1)
C.I. 77050
Stibium

7440-38-2
Arsenic (8C1)(9C1)
Arsenic-75
Arsenic black

7440-41-4
Beryllium (8C1)(9C1)

7440-43-9
Cadmium (8C1)(9C1)

7440-47-3
Chromium (8C1)(9C1)
Chrome

7440-50-8
Copper (8C1)(9C1)

7440-61-1
Uranium (8C1)(9C1)
Uranium 1/(238)U/
Uranium-238

7440-62-2
Vanadium (8C1)(9C1)

7440-66-6
Zinc (8C1)(9C1)

7664-93-9
Sulfuric acid (8C1)(9C1)
Sulphuric acid
Oil of vitriol
Dipping acid
Vitriol brown oil
BOV

7704-39-9
Sulfur (8C1)(9C1)

7782-49-2
Selenium (8C1)(9C1)

8052-42-4
Asphalt (8C1)(9C1)
Asphaltum
Mineral pitch
Judean pitch
Bitumen

10043-92-2
Radon (9C1)
Radon 222

24458-48-8
n(-2-Methyl-2-nitropropyl)-
nitrosaniline

26471-62-5
Benzene, 1,3-diisocyanatomethyl- (9C1)
Methylphenylene isocyanate
1,3-Diisocyanatomethylbenzene
Isocyanic acid, methyl-m-phenylene ester (8C1)
Methyl-m-phenylene isocyanic acid ester
Methyl-m-phenylene isocyanate
Diisocyanatotoluene
Tolylene diisocyanate
TDI
Toluene diisocyanate
Tolylene isocyanate

63084-98-0
p-Aminophenol, sulfate salt

67845-79-8
o-Aminophenol, sulfate salt

ALPHABETIZED CHEMICAL NAME REFERENCE LIST

Name	CAS No.
Aadibroom	106-93-4
Acetic acid, ethenyl ester	108-05-4
Acetic acid ethenyl ester (9CI)	108-05-4
Acetic acid, phenethyl ester	103-45-7
Acetic acid, 2-phenethyl ester	103-45-7
Acetic acid vinyl ester (8CI)	108-05-4
1-Acetoxyethylene	108-05-4
Acritet	107-13-1
Acrolein (8CI)	107-02-8
Acrylaldehyde	107-02-8
Acrylic aldehyde	107-02-8
Acrylon	107-13-1
Acrylonitrile (8CI)	107-13-1
Aerothene MM	75-09-2
Aerothene TT	71-55-6
Algylen	79-01-6
Allyl aldehyde	107-02-8
Allylamine (8CI)	107-11-9
Aluminum (8CI)(9CI)	7429-90-5
4-(4-Aminobenzyl)aniline	101-77-9
1-Aminonaphthalene	134-32-7
.alpha.-Aminonaphthalene	134-32-7
o-Aminophenol	97-55-6
o-Aminophenol, sulfate salt	67854-79-8
p-Aminophenol	123-30-8
p-Aminophenol, hydrochloride salt	50-78-5
p-Aminophenol, sulfate salt	63084-98-0
3-Aminopropene	107-11-9
1-Amino-2-methylbenzene	95-53-4
2-Aminotoluene	95-53-4
o-Aminotoluene	95-53-4
Anamenth	79-01-6
Aniline, 4,4'-methylenedi- (8CI)	101-77-9
Ankilostin	127-18-4
(6)Annulene	71-43-2
Antimony (8CI)(9CI)	7440-36-0
Antisal 1a	108-05-4
Antisal 1 (VAN)	127-18-4
Aqualin	107-02-8
Arsenic (8CI)(9CI)	7440-38-2
Arsenic-75	7440-38-2
Arsenic black	7440-38-2
Asbestos (8CI)(9CI)	1332-21-4
Asbestos fiber	1332-21-4
Asphalt (8CI)(9CI)	8052-42-4
Asphaltum	8052-42-4
BFB	50-00-00
BOV	7664-93-9
Basic copper sulfate	1333-37-2
Benz(a)anthracene (8CI)(9CI)	56-55-3
Benz[a]anthracene	56-55-3
1,2-Benz(a)anthracene	56-55-3
1,2-Benz[a]anthracene	56-55-3
1,2-Benzanthracene	56-55-3
Benzanthracene	56-55-3
1,2:5,6-Benzanthracente	53-50-3
1,2-Benzanthrene	56-55-3
Benzanthrene	56-55-3
Benz[a]pyrene	50-32-8
Benz(a)pyrene	50-32-8
3,4-Benz[a]pyrene	50-32-8
3,4-Benz(a)pyrene	50-32-8
Benzenamine, 2-methyl- (9CI)	95-53-4
Benzenamine, 4,4'-methylenebis- (9CI)	101-77-9
Benzenamine, 4,4'-methylenebis [2-chloro]-	101-14-4
Benzenamine, 2-methyl-, hydrochloride	636-21-5
Benzene (8CI)(9CI)	71-43-2

Name	CAS. No.
Benzene, 1,3-diisocyanatomethyl- (9CI)	26471-62-5
Benzene, ethenyl- (9CI)	100-42-5
Benzene, methyl- (9CI)	108-05-4
1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl)ester (9CI)	117-81-7
1,2-Benzenedicarboxylic acid, bis (ethylhexyl)ester	117-81-7
1,2-Benzenedicarboxylic acid, bis (2-methoxyethyl) ester (9CI)	117-82-8
1,2-Benzenedicarboxylic acid anhydride	85-44-9
1,2-Benzenedicarboxylic anhydride	85-44-9
Benzinoform	56-23-5
Benzinol	108-95-2
Benzo(a)pyrene (8CI)(9CI)	50-32-8
Benzo(a)pyrene	50-32-8
Benzo[a]pyrene	50-32-8
Benzo[d,e,f]chrysene	50-32-8
Benzo(d,e,f)chrysene	50-32-8
6,7-Benzopyrene	50-32-8
3,4-Benzopyrene	50-32-8
3,4-Benzopyrene/Carcinogen/Benzo[d,e,f] chrysene	50-32-8
Benzo[a]anthracene	56-55-3
Benzo(a)anthracene	56-55-3
1,2-Benzoanthracene	56-55-3
Benzoanthracene	56-55-3
Benzo(b)phenanthrene	56-55-3
Benzol	71-43-2
Benzole	71-43-2
Benzo[b]phenanthrene	56-55-3
2,3-Benzophenanthrene	56-55-3
3,4-Benzpyrene	50-32-8
Benzylcarbinyl acetate	103-45-7
Benzylmethanol	60-12-8
Beryllium (8CI)(9CI)	7440-41-7
1,2-Bichloroethane	107-06-2
Biethylene	106-99-0
Bis(p-Aminobenzyl)aniline	101-77-9
Bis(2-ethylhexyl) 1,2-benzene-dicarboxylate (VAN)	117-81-7
Bis(2-exthylhexyl) phthalate	117-81-7
Bis(2-methoxyethyl) 1,2-benzene-dicarboxylate	117-82-8
Bis[2-methoxyethyl]ether	111-96-6
Bis[2-methoxyethyl] phthalate	117-82-8
Bisoflex 81	117-81-7
Bisoflex DOP	117-81-7
Bitumen	8052-42-4
Bivinyl	106-99-0
Brocide	107-06-2
Bromofume	106-93-4
Buta-1,3-diene	106-99-0
Butadiene	106-99-0
1,3-Butadiene	106-99-0
.alpha...gamma.-Butadiene	106-99-0
1,3-butadiene, 2-chloro- (8CI)(9CI)	126-99-8
C 56	77-47-4
CFC 113	76-13-1
CG	75-44-5
Cadmium (8CI)(9CI)	7440-43-9
Carbacryl	107-13-1
Carbolic acid	108-95-2
Carbon, amorphous	1333-37-2
Carbon black (8CI)(9CI)	1337-37-2
Carbon bisulfide	75-15-0
Carbon bisulphide	75-15-0
Carbon chloride/CC14/	56-23-5
Carbon chloride/CC14/	56-23-5
Carbon dichloride oxide	75-44-5
Carbon disulfide (8CI)(9CI)	75-15-0

Name	CAS No.
Carbon disulphide	75-15-0
Carbon monoxide (8Cl)(9Cl)	630-08-0
Carbon oxide/CO/	630-08-0
Carbon oxychloride	75-44-5
Carbon sulfide/CS2/	75-15-0
Carbon tetrachloride (8Cl)	56-23-5
Carbona (VAN)	56-23-5
Carbonic dichloride (9Cl)	75-44-5
Carbonyl chloride	75-44-5
Carbonyl dichloride	75-44-5
Cellosolve	110-80-5
Channel Black	1333-37-2
Chloramine Blue 3B	71-55-6
Chlorilen	79-01-6
2-Chlorobutadiene	126-99-8
2-Chloro-1,3,-butadiene	126-99-8
Chlorodimethyl ether	107-30-2
1-Chloro-2,3-epoxypropane (VAN)	106-89-8
3-Chloro-1,2-epoxypropane (VAN)	106-89-8
Chloroethene	75-01-4
Chloroethylene	75-01-4
Chlorofluorocarbon-113	76-13-1
Chloroform (8Cl)	67-66-3
Chloroformyl chloride	75-44-5
Chloromethoxymethane	107-30-2
(Chloromethyl)ethylene oxide	106-89-8
Chloromethyl methyl ether	107-30-2
(Chloromethyl)oxirane	106-89-8
2-Chloromethyl oxirane	106-89-8
Chloroprene	126-99-8
3-Chloropropene-1,2-oxide	106-89-8
Chloropropylene oxide	106-89-8
3-Chloropropylene oxide	106-89-8
3-Chloro-1,2-propylene oxide	106-89-8
.gamma.-Chloropropylene oxide	106-89-8
Chloroten	71-55-6
Chlorotene	71-55-6
Chlorothane NU	71-55-6
Chlorothene	71-55-6
Chlorothene NU	71-55-6
Chlorothene VG	71-55-6
Chlorylen	79-01-6
Chorylen	79-01-6
Chrome	7440-47-3
Chromium (8Cl)(9Cl)	7440-47-3
Cinnamene	100-42-5
C.I. 37265	134-32-7
C.I. 77050	7440-36-0
C.I. 77640	1314-87-0
C.I. 77266	1333-37-2
C.I. 77938	1314-62-1
C.I. Azoic Diazo Component 114	134-32-7
C.I. Pigment Black 7	1337-37-2
Coal naphtha	71-43-2
Columbia carbon	1337-37-2
Compound 889	117-81-7
Copper (8Cl)(9Cl)	7440-50-8
Corax P	1333-37-2
Cyanoethylene	107-13-1
Cyclohexatriene	71-43-2
1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-(8Cl)(9Cl)	77-47-4
DADPM	101-77-9
DAPM	101-77-9
DBA (VAN)	53-50-3
1,1-DCE	75-35-4
DDM	101-77-9

Name	CAS No.
DEHP	117-81-7
DMF (amide)	68-12-2
DMF (VAN)	68-12-2
DMFA	68-12-2
DOP	117-81-7
Delussa Black FW	1337-37-2
Densinfluat	79-01-6
Diaminodiphenylmethane (VAN)	101-77-9
p,p'-Diaminodiphenylmethane	101-77-9
4,4'-Diaminodiphenylmethane	101-77-9
Di(4-aminophenyl)methane	101-77-9
Dianilinemethane (VAN)	101-77-9
Dianilinomethane (VAN)	101-77-9
1,2:5,6-Dibenz[a]anthracene	53-70-3
1,2:5,6-Dibenz(a)anthracene	53-50-3
Dibenz(a,h)anthracene (8Cl)(9Cl)	53-70-3
1,2:5,6-Dibenzanthracene	53-50-3
1,2:5,6-Dibenzoanthracene	53-50-3
Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro-(9Cl)	1746-01-6
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro-(8Cl)	1746-01-6
Dibenzofuran	132-32-7
1,2-Dibromoethane	106-93-4
sym-Dibromoethane	106-93-4
1c,1b-Dibromoethane	106-93-4
.alpha.,.beta.-Dibromoethane	106-93-4
.alpha.,alpha.-Dichlorodimethyl ether	107-30-2
1,1-Dichloroethane	75-35-4
1,2-Dichloroethane	107-06-2
1c,1b-Dichloroethane	107-06-2
.alpha.,,beta.-Dichloroethane	107-06-2
sym-Dichloroethane	107-06-2
1-1-Dichloroethylene	75-35-4
Dichloromethane	75-09-2
Didakene	127-18-4
(Diethylamino)ethane	121-44-8
1,4-Diethylene dioxide	123-91-1
Diethylene ether	123-91-1
Diethylene oxide	123-91-1
Di-(2-ethylhexyl)-phthalate	117-81-7
Di(ethylhexyl) phthalate	117-81-7
Dihydrooxirene (VAN)	75-21-8
1,3-Diisocyanatomethylbenzene	26471-62-5
Diisocyanatotoluene	26471-62-5
Dimethoxy ethyl phthalate	117-82-8
Di(methoxyethyl) phthalate	117-82-8
Dimethylene oxide (VAN)	75-21-8
Dimethylformamide	68-12-2
Dimethyl hydrogen phosphite	868-85-9
Dioctyl phthalate	117-81-7
1,4-Dioxacyclohexane	123-91-1
Dioxan	123-91-1
p-Dioxan	123-91-1
1,4-Dioxan (VAN)	123-91-1
1,4-Dioxane (9Cl)	123-91-1
Dioxane (VAN)	123-91-1
p-Dioxane (8Cl)	123-91-1
Dioxin (herbicide contaminant)(VAN)	1746-01-6
1,4-Dioxine, tetrahydro	123-91-1
Dioxyethylene ether	123-91-1
4,4'-Diphenylmethanediamine	101-77-9
Dipping acid	7664-93-9
Dithiocarbonic anhydride	75-15-0
Divanadium pentaoxide	1314-62-1
Divanadium pentoxide	1314-62-1
Divinyl	106-99-0
Dowanol EM	109-86-4

Name	CAS No.
Dowicide 2	95-95-4
Dowicide 7	87-86-5
Dowfume W-8	106-93-4
Dowfume W-85	106-93-4
Dowfume W85	106-93-4
Dutch liquid	107-06-2
EDB	106-63-4
EDC	107-06-2
EDTMPA	1429-50-1
EP 30	87-86-5
ESEN	85-44-9
ETO (VAN)	75-21-8
Emkanol	110-80-5
Epichlorohydrin	106-89-8
lc-Epichlorohydrin	106-89-8
Epicure DDM	101-77-9
Epikure DDM	101-77-9
1,2-Epoxy-3-chloropropane	106-89-8
Epoxyethane	75-21-8
1,2-Epoxyethane (VAN)	75-21-8
2,3-Epoxypropyl chloride	106-89-8
Erythrene	106-99-0
Ethane, 1,1'-oxybis[2-methoxy-] (9Cl)	111-96-6
Ethane, 1,1,1-trichloro- (8Cl)(9Cl)	71-55-6
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1
Ethanamine,N,N-diethyl- (9Cl)	121-44-8
Ethane, 1,2-dibromo- (8Cl)(9Cl)	106-93-4
Ethane, 1,2-dichloro- (8Cl)(9Cl)	107-06-2
Ethanol, 2-ethoxy- (8Cl) (9Cl)	110-80-5
Ethanol, 2-methoxy- (8Cl)(9Cl)	109-86-4
Ethene, chloro- (9Cl)	75-01-4
Ethene, 1,1-dichloro (9Cl)	75-35-4
Ethene oxide	75-21-8
Ethene, 1,1,2,2-tetrachloro-	127-18-4
Ethene, tetrachloro- (9Cl)	127-18-4
Ethene, trichloro- (9Cl)	79-01-6
Ethenyl acetate	108-05-4
Ether, bis[2-methoxyethyl]- (8Cl)	111-96-6
Ether, chloromethyl methyl (8Cl)	107-30-2
Ethinyl trichloride	76-01-6
2-Exthoxyethanol	110-80-5
.beta.-Ethoxyethanol	110-80-5
Ethyl Cellosolve	110-80-5
Ethylene bromide	106-93-4
Ethylene chloride	107-06-2
Ethylene, chloro- (8Cl)	75-01-4
Ethylene dibromide	106-93-4
Ethylene dichloride	107-06-2
Ethylene, 1,1-dichloro-(8Cl)	75-35-4
Ethylene glycol ethyl ether	110-80-5
Ethylene glycol monoethyl ether	110-80-5
Ethylene glycol monomethyl ether	109-86-4
Ethylene oxide (8Cl)	75-21-8
Ethylene tetrachloro- (8Cl)	127-18-4
Ethylene tetrachloride	127-18-4
Ethylene, trichloro- (8Cl)	79-01-6
Ethylene trichloride	79-01-6
Ethyl glycol	110-80-5
2-Ethylhexyl phthalate (VAN)	117-81-7
Ethylhexyl phthalate	117-81-7
Eviplast 80	117-81-7
Eivplast 81	117-81-7
F-113	76-13-1
Fannoform	50-00-0
Fast Garnet Base B	134-32-7
Fedal-Un (VAN)	127-18-4
Fleximel	117-81-7

Name	CAS No.
Flexol DOP	117-81-7
Fluate	79-21-0
Flukoids (VAN)	56-23-5
Fluorocarbon 113	76-13-1
Formaldehyde (8Cl)(9Cl)	50-00-0
Formaldehyde, gas	50-00-0
Formaldehyde solution	50-00-0
Formalin	50-00-0
Formalith	50-00-0
Formamide, N,N-dimethyl- (8Cl)(9Cl)	68-12-2
Formic aldehyde	50-00-0
Formol	50-00-0
Freson 113	76-13-1
Frigen 113 TR-T	76-13-1
Fumigrain	107-13-1
Fingifen	87-86-5
Furnex N 765	1332-37-2
Fyde	50-00-0
Gamma-Chloropropylene oxide	106-89-8
Germalgene	79-01-6
Glycerol epichlorohydrin	106-89-8
Glycidyl chloride	106-99-0
Glycol dibromide	106-93-4
Glycol dichloride	107-06-2
Glycol monoethyl ether	110-80-5
Graphlox	77-47-4
Grundier Arbezol	87-86-5
HRS 1655	77-47-4
HT 972	101-77-9
1,2,3,4,5,5-Hexachloro-1,3-cyclopentadiene	77-47-4
Hexachlorocyclopentadiene	77-47-4
Hydroxchloride o-toluidine	636-21-5
Hydroxybenzene	108-95-2
.beta.-Hyrodxyethylbenzene	60-12-8
1-Hydroxy-2-methoxyethane (VAN)	109-86-4
Inhibisol	71-55-6
Iron oxide	1309-37-1
Iron oxide	1332-37-2
Iron oxide	1345-25-1
1,3-Isobenzofurandione (9Cl)	85-44-9
Iscobrome D	106-93-4
Isocyanic acid, methyl-m-phenylene ester (8Cl)	26471-62-5
Isoindole-1,3-dione	85-41-6
1,3-Isoindoledione	85-41-6
1,3-Isoindolinedoione	85-41-6
Ivalon	50-00-0
Izal	108-95-2
Judean pitch	8052-42-4
Kodaflex DOP	117-81-7
Lauxtol	87-86-5
Lead, tetraethyl-	78-00-2
Lead monosulfide (VAN)	1314-87-0
Lead oxide (PbO)(9Cl)	1317-36-8
Lead sulfide/PbS/ (8Cl)(9Cl)	1314-87-0
Lead sulfide (VAN)	1314-87-0
Lead(II) sulfide (VAN)	1314-87-0
Lead(2) sulfide (VAN)	1314-87-0
Liroprem	87-86-5
Lithium (8Cl)(9Cl)	7439-93-2
Lysoform	50-00-0
MDA	101-77-9
MOCA	101-14-4
Managanese (8Cl)(9Cl)	7489-96-6
Marsh gas	74-82-2
Methacide	108-05-4
Methaldehyde	50-00-0

Name	CAS No.
Methanal	50-00-0
Methane (8Cl)(9Cl)	74-82-8
Methane, chloromethoxy- (9Cl)	107-30-2
Methane, dichloro- (8Cl)(9Cl)	75-09-2
Methane, tetrachloro-(9Cl)	56-23-5
Methane, trichloro-(9Cl)	67-66-3
Methoxychloromethane	107-30-2
2-Methoxyl-1-ethanol (VAN)	109-86-4
2-Methoxyethanol	109-86-4
1b-Methoxyethanol	109-86-4
Methoxyethanol	109-86-4
Methoxymethyl chloride	107-30-2
Methyl aldehyde	50-00-0
2-Methyl-1-aminobenzene	95-53-4
2-Methylaniline	95-53-4
o-Methylaniline	95-53-4
2-Methylaniline hydrochloride	636-21-5
Methylbenzene	108-05-4
2-Methylbenzenamine	95-53-4
o-Methylbenzenamine	95-53-4
2-Methylbenzenamine hydrochloride	636-21-5
Methylbenzol	108-05-4
Methyl cellosolve	109-86-4
Methyl chloroform	71-55-6
Methylchloroform	71-55-6
Methyl chloromethyl ether	107-30-2
Methylenbis(aniline) (VAN)	101-77-9
4,4'-Methylenebis(aniline)	101-77-9
4,4'-Methylenebis[benzenamine]	101-77-9
4,4'-Methylenebis(2-chloroaniline)	101-14-4
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4
4,4'-Methylenebis(2-chlorobenzenamine)	101-14-4
Methylene chloride	75-09-2
Methylenedianiline (VAN)	101-77-9
p,p-Methylenedianiline	101-77-9
Methylene dichloride	75-09-2
Methylene oxide	50-00-0
Methyl hydride	74-82-8
n(2-Methyl-2-nitropropyl)-nitrosaniline	24458-48-8
Methyl-m-phenylene isocyanate	26471-62-5
Methylphenylene isocyanate	26471-62-5
Methyl-m-phenylene isocyanic acid ester	26471-62-5
Methyltrichloromethane	71-55-6
Metso 99	1333-37-2
Mineral pitch	8052-42-4
Monoallylamine	107-11-9
Monochlorodimethyl ether	107-30-2
Monochloroethylene	75-01-4
Monochloromethyl methyl ether	107-30-2
Monohydroxybenzene	108-95-2
Monophenol	108-95-2
Morbicid	50-00-0
NSC 8819	107-02-8
1-Naphthalenamine (9Cl)	134-32-7
2-Naphthalamine (8Cl)	134-32-7
1-Naphthalamine	134-32-7
a-Naphthylamine (8Cl)	134-32-7
.alpha.-Naphthylamine	134-32-7
Naphthalidam	134-32-7
Naphthalidine	134-32-7
Narcogen	79-01-6
Narkoti	75-09-2
Narkosoid	79-01-6
Natural lead sulfide (VAN)	1314-87-0
Necatorina	56-23-5
Nefis	106-93-4
Nema (VAN)	127-18-4

Name	CAS No.
N-Formyldimethylamine	68-12-2
Nickel (8Cl)(9Cl)	7440-02-0
N,N-Dimethylformaide	68-12-2
Octoil	117-81-7
Octyl phthalate (VAN)	117-81-7
Oil of vitriol	7664-93-9
Oxacyclopropane	75-21-8
Oxane (VAN)	75-21-8
Oxidoethane	75-21-8
Oxirane (9Cl)	75-21-8
Oxirane, (chloromethyl)- (9Cl)	106-89-8
Oxirane, 2-(chloromethyl)-	106-89-8
Oxirene, Dihydro	75-21-8
Oxitol	110-80-5
Oxomethane	50-00-0
Oxybenzene	108-95-2
1,1'-Oxybis[2-methoxyethane]	111-96-6
Oxyfume	75-21-8
Oxyfume 12	75-21-8
Oxymethylene	50-00-0
P 37	1314-87-0
P 128	1314-87-0
PCP (VAN)	87-86-5
PCP/pesticide/	87-86-5
PEA	60-12-8
.beta.-PEA	60-12-8
Palatinol AH	117-81-7
Paraform (VAN)	50-00-0
Penchlorol	87-86-5
Penta	87-86-5
Pentachlorophenol	87-86-5
Perclene	127-18-4
Perchlorocyclopentadiene	77-47-4
Perchloroethylene (VAN)	127-18-4
Perchloromethane	56-23-5
Permasan	87-86-5
Permatox DP-2	87-86-5
PerSec (VAN)	127-18-4
Pestermeister EDB-85	106-93-4
Phene	71-43-2
Phenethanol	60-12-8
.beta.-Phenethanol	60-12-8
Phenethyl acetate	103-45-7
.beta.-Phenethyl acetate	103-45-7
2-Phenethyl acetate	103-45-7
2-Phenethyl alcohol	60-12-8
.beta.-Phenethyl alcohol	60-12-8
Phenethyle	100-43-5
Phenic ac d	108-95-2
Phenol (8Cl)(9Cl)	108-95-2
Phenol, pentachloro- (8Cl)(9Cl)	87-86-5
Phenol, 2,3,5-trichloro- (8Cl)(9Cl)	95-95-4
Phenyl alcohol	108-95-2
Phenylethanol	60-12-8
2-Phenylethanol	60-12-8
Phenylethanol acetate	103-45-7
2-Phenylethanol acetate	103-45-7
Phenylethene	100-42-5
.beta.-Phenylethyl acetate	103-45-7
2-Phenylethyl acetate	103-45-7
Phenylethyl alcohol	60-12-8
.beta.-Phenylethyl alcohol	60-12-8
2-Phenylethyl alcohol	60-12-8
Phenylethylene	100-42-5
Phenyl hydrate	108-95-2

Name	CAS No.
Phenyl hydride	71-43-2
Phenyl hydroxide	108-95-2
Phenylic acid	108-95-2
Phenylic alcohol	108-95-2
Phenylmethane	108-05-4
Philblack N 550	1333-37-2
Philblack N 765	1333-37-2
Phosgen	75-44-5
Phosgene (8Cl)	75-44-5
Phosphonic acid, dimethyl ester	868-85-9
Phosphoric acid, triethyl ester	868-85-9
Phthalandione	85-44-9
1,3-Phthalandione	85-44-9
o-Phthalic acid	85-41-6
Phthalic acid, bis(2-ethylhexyl) ester (8Cl)	117-81-7
Phthalic acid, bis(2-methoxyethyl) ester	117-82-8
Phthalic acid, di(methoxyethyl) ester (8Cl)	117-82-8
Phthalic acid anhydride	85-44-9
Phthalic acid dioctyl ester (VAN)	117-81-7
Phthalic anhydride (8Cl)	85-44-9
Phthalimide	85-41-6
Pittsburgh PC-138	117-81-7
Plumbane, tetraethyl- (8Cl)(9Cl)	78-00-2
Plumbous sulfide (VAN)	1314-87-0
Poly-Solv EE	110-80-5
Poly-Solv EM	109-86-4
Preventol 1	95-95-4
Preventol P	87-86-5
Printex 60	1333-37-2
Propane, 1-chloro-2,3-epoxy- (8Cl)	106-89-8
Propenal	107-02-8
2-Propenal (9Cl)	107-02-8
Prop-2-en-1-al	107-02-8
2-Propene-1-amine	107-11-9
2-Propenamine	107-11-9
Propenenitrile	107-13-1
2-Propenenitrile (9Cl)	107-13-1
Pyrobenzol	71-43-2
Pyrobenzole	71-43-2
Pryrrolylene	106-99-0
Quinoline	530-63-3
R 10	56-23-5
R20 (VAN)	67-66-3
R 20/refrigerant	67-66-3
R 30	75-09-2
RCi 49-162	87-86-5
Radon (9Cl)	10043-92-2
Radon 222	10043-92-2
Regol 99	1333-37-2
Retarder AK	85-44-9
Retarder ESEN	85-44-9
Retarder PD	85-44-9
Sanhyuum	106-93-4
Santophen 20	87-86-5
Sconatex	75-35-4
Seilbrom-85	106-93-4
Selenium (8Cl)(9Cl)	7782-49-2
Sicol 150	117-81-7
SKEKhG	106-89-8
Solaesthin	75-09-2
Solifume	106-93-4
Solmethine	75-09-2
Staflex DOP	117-81-7
Statex N 550	1333-37-2
Sterling N 765	1333-37-2
Sterling NS	1333-37-2
Sterling SO 1	1333-37-2

Name	CAS No.
Stibium	7440-36-0
Styrene (8Cl)	100-42-5
Styrol	100-42-5
Styrole	100-42-5
Styrolene	100-42-5
Styropol SO	100-42-5
Sulfur (8Cl)(9Cl)	7704-39-9
Sulfuric acid (8Cl)(9Cl)	7664-93-9
Sulphuric acid	7664-93-9
Superlysoform	50-00-0
.alpha.-T.	71-55-6
TCDD	1746-01-6
TCP (VAN)	95-95-4
DTI	26471-62-5
TEL	78-00-2
TGL 5525	85-44-9
TM-30	1333-37-2
Tetlen	127-18-4
Tetracap (VAN)	127-18-4
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6
2,3,7,8-Tetrachlorodibenzo-1,4-dioxin	1746-01-6
Tetrachloroethene (VAN)	127-18-4
Tetrachlorethylene	127-18-4
Tetrachloroethylene	127-18-4
1,1,2,2-Tetrachloroethylene (VAN)	127-18-4
Tetrachloromethane	56-23-5
Tetraethyl Lead	78-00-2
Tetraethyllead	78-00-2
Tetraethylplumbane	78-00-2
Tetraform (VAN)	56-23-5
Tetraguer (VAN)	127-18-4
Tetrahydro-1,4-dioxane	123-91-1
Tetrafinol	56-23-5
Tetralone (VAN)	127-18-4
Tetraphene	56-55-3
Tetrasol (VAN)	56-23-5
Tetropil (VAN)	127-18-4
T-Gas	75-21-8
Threthylen	79-01-6
Threthylene	79-01-6
Toluene (8Cl)	108-05-4
Toluene diisocyanate	26471-62-5
o-Toluidine (8Cl)	95-53-4
o-Toluidine hydrochloride	636-21-5
o-Tolyiamine	95-53-4
Toluol	108-05-4
2-Toluidine	95-53-4
Tolylene diixocyanate	26471-62-5
Tolylene isocyanate	26471-62-5
Tonox	101-77-9
Trethylene	79-01-6
Tri	79-01-6
Trichloran	79-01-6
Trichloren	79-01-6
1,1,1-Trichloroethane	71-55-6
.alpha.-Trichloroethane	71-55-6
Trichloroethane (VAN)	71-55-6
Trichloroethene	79-01-6
Trichloroethylene	79-01-6
Trichloroform	67-66-3
Trichloromethane	67-66-3
2,4,5-Trichlorophenol	95-95-4
Trichlorotrifluoroethane (VAN)	76-13-1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1
1,1,2-Trifluoro-1,2,2-trichloroethane	76-13-1
Triclene	79-01-6
Triethylamine (8Cl)	121-44-8

Name	CAS No.
Triethyl phosphate	78-40-0
Trilen	79-01-6
Trilene	79-01-6
Trimar	79-01-6
Truflex DOP	117-81-7
UCON 113	76-13-1
Ucon Fluorocarbon 113	76-13-1
Univerm (VAN)	56-23-5
Uranium (8Cl)(9Cl)	7440-61-1
Uranium 1/(238)U/	7440-61-1
Uranium-238	7440-61-1
Uranium dioxide	1333-37-2
VCN	107-13-1
VDC	75-35-4
Vanadic anhydride	1314-62-1
Vanadium (8Cl)(9Cl)	7440-62-2
Vanadium(V) oxide	1314-62-1
Vanadium oxide/V2O5/ (8Cl)(9Cl)	1314-62-1
Vanadium pentoxide	1314-62-1
Ventox	107-13-1
Vermoestricid (VAN)	56-23-5
Vestinol AH	117-81-7
Vinçizer 80	117-81-7
Vinyl acetate	108-05-4
Vinyl A monomer	108-05-4
Vinylbenzene	100-42-5
Vinylbenzol	100-42-5
Vinyl chloride	75-01-4
Vinyl cyanide	107-13-1
Vinyl C monomer	75-01-4
Vinylethylene	106-99-0
Vinylidene chloride	75-35-4
Vinylidene chloride (11)	75-35-4
Vinylidene dichloride	75-35-4
Vitriol brown oil	7664-93-9
Vulkalent B/C	85-44-9
VyAc	108-05-4
Westrosol	79-01-6
Witcizer 312	117-81-7
Witcoblak No. 100	1333-37-2
Zinc (8Cl)(9Cl)	7440-66-6

PART 4. OTHER SOURCES OF INFORMATION ON ONGOING RESEARCH

1. National Toxicology Program Fiscal Year 1984 Annual Plan.
Dept. of Health and Human Services
Feb. 84, 307p, NTP-84-023.
Available from: National Toxicology Program Public Information Office, MD B2-04, P.O. Box 12233, Research Triangle Park, NC 27709.
(919)541-3991

Abstract: The National Toxicology Program (NTP) was established by the Department of Health and Human Services (HHS) to coordinate and provide information about potentially toxic chemicals to regulatory and research agencies and to strengthen the science base in toxicology. The NTP includes relevant activities by HHS agencies including the National Cancer Institute (NCI), National Institute of Environmental Health Sciences (NIEHS), the Food and Drug Administration (FDA), and the National Institute for Occupational Safety and Health (NIOSH). The Annual Plan describes the NTP's completed, ongoing, and planned activities in toxicology research and testing. An index of chemicals being studied is also included. NTP programs in the following categories are described: cellular and genetic toxicology, carcinogenesis testing, toxicologic characterization, benzidine-dye initiative, chemical disposition, chemical pathology, cutaneous toxicology, immunological testing, neurobehavioral toxicology, pulmonary toxicology, safety evaluations of orthophthalic acid esters and related compounds, and reproductive and developmental toxicology. Coordinative management activities are also described. These include: chemical nomination and selection, chemical and laboratory test management, chemistry resources, chemical repositories, laboratory animal resources, chemical health and safety, data management and analysis, information generation and dissemination, and the annual report on carcinogens.

2. National Toxicology Program Review of Current DHHS, DOE, and EPA Research Related to Toxicology, Fiscal Year 1984.
Dept. of Health and Human Services
Feb. 84, 228p, NTP-84-024.
Available from: National Toxicology Program Public Information Office, MD B2-04, P.O. Box 12233, Research Triangle Park, NC 27709.
(919)541-3991

Abstract: The document reviews basic toxicology research, toxicology testing, and toxicology method development activities in progress at the Department of Health and Human Services (HHS), the Department of Energy (DOE) and the Environmental Protection Agency (EPA). Summaries of the dollar and manpower support for agency activities in toxicology are included. A narrative of the roles of each agency in toxicology research is given, followed by listings of projects. The test method development section contains abbreviated summaries of each test method development project, the performing organization, and project number.

The toxicology testing section lists information on each testing project including the chemical name, CAS Number, type of study, status, performing organization and project number of EPA, DHHS, and DOE toxicology studies. The toxicology testing list is indexed in three ways: by chemical name, CAS number, and type of study.

3. PB84-213958 PC A19/MF A01
Chemical Activities Status Report. Fourth Edition, Volume I.
Eleanor T. Merrick
Environmental Protection Agency, Washington, D.C., Office of Pesticides and Toxic Substances
Feb. 84, 426p, EPA-560/TIIS-84-001A.
Available from: National Technical Information Service (NTIS), Springfield, VA 22161. (703)487-4650

Abstract: The EPA Chemical Activities Status Report (EPACASR) is a compilation of EPA activities relating to chemical substances. Types of documents or activities listed in the data base include technical assistance information, pre-regulatory assessments, chemical and biological testing programs, and monitoring programs, both completed and in progress. Chemical-specific regulatory activities under the Clean Air Act, Clean Water Act, Safe Drinking Water Act, Federal Insecticide, Fungicide, and Rodenticide Act, Toxic Substances Control Act, Resource Conservation and Recovery Act, Superfund, Atomic Energy Act, and Energy Research and Development Act are also listed. Volume 1 provides names and synonyms for chemicals included in the data base, both alphabetically and by CAS registry number. Volume II contains brief descriptions of EPA activities relating to each chemical.

4. PB84-213966 PC A99/MF E04
Chemical Activities Status Report. Fourth Edition, Volume II.
Eleanor T. Merrick
Environmental Protection Agency, Washington, D.C., Office of Pesticides and Toxic Substances
Feb. 84, 725p, EPA-560/TIIS-84-001B.
Available from: National Technical Information Service (NTIS), Springfield, VA 22161. (703)487-4650

Abstract: See PB84-213958 above.

5. Managers Guide to EPA Activities on Toxic and Hazardous Chemicals.
Environmental Protection Agency, Washington, D.C., Office of Toxic Substances
Sept. 84, 321p, TR-540-11.
Available from: Chemical Coordination Staff, Office of Toxic Substances, Environmental Protection Agency, 401 M Street, SW, Washington, D.C. 20460. (202) 475-6104

Abstract: This report provides information on the status of EPA activities on toxic and hazardous chemicals. The report is limited to chemical-specific evaluation and regulatory activities under seven statutes: Clean Air Act, Clean Water Act, Safe Drinking Water Act, Superfund, the Resource Conservation and Recovery Act, Federal Insecticide, Fungicide and Rodenticide Act, and Toxic Substances Control Act. A tabular matrix is presented with the seven statutes along the horizontal axis, chemicals along the vertical axis, and project status in the cells of the matrix. The types of projects listed in the matrix include several kinds of regulatory assessments (such as health, risk, source, exposure and pre-regulatory assessments) as well as dates of proposal and final rulemakings under the seven statutes. Completed projects and current or planned activities scheduled to occur in fiscal year 1983 through 1985 are included. Depending on the statute under which a chemical is being evaluated or regulated, the projects listed may focus on air or water media or they may be multimedia projects. Indices which include a list of common chemical nomenclature synonyms are also provided in the back of the document. The information presented in this document was current as of June 1984.

APPENDIX

EPA OFFICE OF DRINKING WATER PROJECTS[1]

The EPA Office of Drinking Water (ODW) has studies underway on several potentially toxic chemicals as part of its regulatory development activities. Information on these projects has been included in the Air Toxics Information Clearinghouse ongoing research document because many toxic drinking water contaminants being studied by ODW are also potential air pollutants. Clearinghouse users may find health information generated by ODW projects useful. For further information on the projects described below, contact: Joseph Cotruvo or Craig Vogt, Criteria and Standards Division, Office of Drinking Water, U. S. EPA, 401 M Street, SW, Washington, DC, 20016 (telephone (202) 382-7575).

Under the Safe Drinking Water Act, the U. S. EPA is required to publish regulations which apply to public drinking water systems and control specific contaminants which in the Administrator's judgment "may have any adverse effect on the health of persons". Under the Act, ODW must set "recommended maximum contaminant levels" (RMCLs), which are nonenforceable health goals, and "maximum contaminant levels" (MCLs), which are enforceable standards. The RMCLs are to be set at a level where no adverse human health effects are anticipated to occur and an adequate margin of safety must be allowed. The MCLs are set as close to the RMCL as feasible, depending on technical feasibility and cost.

The Office of Drinking Water has scheduled regulatory development in 4 phases depending upon the type of contaminant:

- Phase 1 - volatile synthetic organic chemicals (VOCs);
- Phase 2 - synthetic organic chemicals (SOCs), inorganic chemicals (IOCs), and microbial contaminants;
- Phase 3 - radionuclides;
- Phase 4 - disinfectant by-products.

Tables 1 through 3 list chemicals being considered under each of these phases.

In general, the regulatory approach for all phases will be similar. First, an advance notice of proposed rule-making (ANPRM) will be published, followed by a public comment period. Then, studies on health effects and frequency of specific constituents in drinking water will be completed and RMCLs will be proposed. A public comment period will follow. Next, RMCLs will be promulgated and MCLs will be proposed. After another comment period, MCLs will be promulgated. Table 4 gives a schedule for these activities.

It may be determined that regulations are not warranted for some of the chemicals being studied under each phase. For such chemicals, ODW will provide nonregulatory health guidance to the states or water systems.[1]

TABLE 1. LIST OF PHASE 1 CHEMICALS

Volatile Synthetic Organic Chemicals (VOCs)
Tetrachloroethylene
Trichloroethylene
1,2-Dichloroethane
Carbon tetrachloride
Vinyl chloride
Benzene
1,1-Dichloroethylene
1,1,1-Trichloroethane
para-Dichlorobenzene

TABLE 2. LIST OF PHASE 2 CHEMICALS

Inorganic Chemicals	Organic Chemicals
Arsenic	Endrin
Cadmium	Methoxychlor
Lead	2,4-D
Nitrate	Lindane
Silver	Toxaphene
Barium	2,4,5-TP
Chromium	cis- and trans- 1,2-Dichloroethylene
Mercury	Dichlorobenzene(s)
Asbestos	Aldicarb
Sulfate	Chlordane
Copper	Endothall
Nickel	Carbofuran
Selenium	Heptachlor
Fluoride	Styrene
	Polychlorinated biphenyls (PCBs)
	Dibromochloropropane (DBCP)
	1,2-Dichloropropane
	Pentachlorophenol
	Alachlor
	Ethylene dibromide (EDB)
	Epichlorohydrin
	Xylene
	Toluene
	2,3,7,8-TCDD (dioxin)
	Chlorobenzene
	Hexachlorobenzene
	Lindane
	Ethyl benzene

TABLE 3. LIST OF PHASE 3 AND 4 CHEMICALS

Phase 3: Radionuclides	Phase 4: Disinfection By-products
Radium 226	Trihalomethanes
Radium 228	Haloacid derivatives
Gross alpha particle activity	Chloramines
Beta particle and photon radioactivity	Residual chlorine(?)
Uranium	Dihaloacetonitriles
Radon	Chlorine dioxide and ions

TABLE 4. NATIONAL REVISED PRIMARY DRINKING WATER REGULATIONS SCHEDULE

Phase	Date
Phase 1: VOCs	
Advance notice of proposed rule-making	Mar. 4, 1982
Propose RMCLs	June 12, 1984
Final RMCLs, propose MCLs	May 1985*
Final MCLs	Apr. 1986*
Phase 2: SOCs, IOCs, microbials	
Advance notice of proposed rule-making	Oct. 5, 1983
Propose RMCLs	May 1985*
Final RMCLs, propose MCLs	Feb. 1986*
Final MCLs	Dec. 1985*
Phase 3: Radionuclides	
Advance notice of proposed rule-making	Oct. 5, 1983
Propose RMCLs	Dec. 1985*
Phase 4: Disinfection by-products	
Advance notice of proposed rule-making	1986

*Estimated dates based on agency review lasting approximately three months.

[1]Cotruvo, J. A. and C. Vogt. Development of Revised Primary Drinking Water Regulations. American Water Works Association Journal, Vol. 76, No. 11, pp. 34-38. November 1984.